

Broadband Microwave and Millimeter-Wave Components Supplier





About Qualwave Inc.

Qualwave Inc. is the top designer and manufacturer of microwave and millimeter wave products. We supply both active and passive components in a wide frequency range from DC to 110GHz all over the world. We provide a series of standard products to meet the needs of most customers. Meanwhile we customize products according to special requirements.

Our company is equipped with 67GHz vector network analyzers, signal sources, spectrum analyzers, power meters, oscilloscopes, welding platforms, resistance and voltage withstand test instruments, high and low temperature test systems and other research and development, production and testing equipments. Our quality management system has been successfully registered for GB/T19001-2016/ISO9001:2015. Like the name, quality is one of the key success factors. Our products are designed and manufactured with the latest tools and the best quality materials. Our engineers are keeping quality in mind through designing, manufacturing and testing. We are proud that many clients rated five stars in their feedback for product quality.

Our team is comprised of professional microwave and millimeter wave engineers and specialized support staff. We take customer's needs as the first priority, as the success of our customers is also our success. We optimized design and manufacture processes by adding more flexibility, which helps to shorten the lead time. Our management and service are customer oriented, ensuring to response to customer as soon as possible.

Products

| | | | |
|------------------|------------------|-------------------|-----------------------|
| Cable Assemblies | Coaxial Adapters | Connectors | DC Blocks |
| Detectors | Attenuators | Terminations | Switches |
| Power Dividers | Couplers | Filters | Circulators/Isolators |
| Phase Shifters | Amplifiers | Frequency Sources | |



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Description

QTV series is high precision test cable especially used for VNA with frequency up to 67GHz.

QT series is high performance test cable with features of frequency up to 110GHz, Phase & Loss Stable and Long Flex Life.

The biggest feature of QTE test cable is low price.

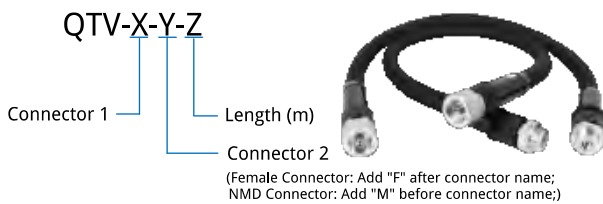
The biggest feature of QTF test cable is ultra-flexible.

Connector Naming Rules

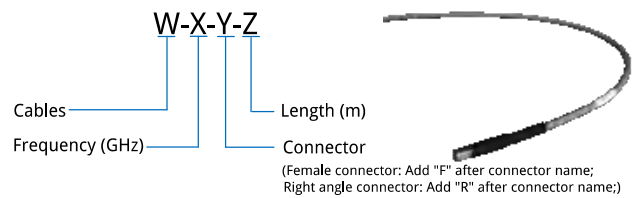
| | |
|---|-------------------|
| 1 - 1.0mm (110GHz) | P - SMP (40GHz) |
| V - 1.85mm (67GHz) | 3 - 3.5mm (33GHz) |
| G - Mini-SMP (mateable with GPPO & SSMP, 65GHz) | S - SMA (26.5GHz) |
| 2 - 2.4mm (50GHz) | N - N (18GHz) |
| K - 2.92mm (40GHz) | |

VNA Test Cables

| Cables | Freq. (GHz) | Bend Radius (mm) | VSWR (Max) | Phase Stability (±°) | Amplitude Stability (±dB) | Connectors | Loss vs Length (dB, max.) | | |
|--------|-------------|------------------|------------|----------------------|---------------------------|------------|---------------------------|------|------|
| | | | | | | | 0.6m | 0.8m | 1m |
| QTV-V | DC~67 | 50 | 1.5 | 10 | 0.13 | 1.85mm | 4.91 | 6.11 | 7.31 |
| QTV-2 | DC~50 | 50 | 1.42 | 8 | 0.1 | 2.4mm | 3.17 | 3.85 | 4.53 |
| QTV-K | DC~40 | 50 | 1.35 | 6 | 0.1 | 2.92mm | 2.78 | 3.37 | 3.96 |
| QTV-3 | DC~26.5 | 50 | 1.3 | 5 | 0.06 | 3.5mm | 2.23 | 2.70 | 3.17 |
| QTV-N | DC~18 | 50 | 1.3 | 4 | 0.05 | N | 1.58 | 1.88 | 2.18 |



Examples: One pair of VNA test cable assemblies, DC~50GHz, 0.6 meter, specify QTV-M2F-M2-0.6 and QTV-M2F-2F-0.6.



Examples: QT67 test cable assembly with armor, DC~60GHz, 1.85mm male to 1.85mm female, 0.5 meter, specify QT67P-60-VVF-0.5.

Test Cable Series

| Feature | Cables | Freq. (GHz) | Outer Diameter (mm) | Shielding Effectiveness (dB, Min.) | Phase Stability (±°, Max.) | Installation / Repeated Bend Radius (mm, Min.) | Armor | Bending / Mating Life Cycle | Connector Options | Temperature |
|------------------|--------|-------------|---------------------|------------------------------------|----------------------------|--|---------|-----------------------------|--------------------------------------|-------------|
| | | | | | | | | | | (°C) |
| High performance | QT110 | DC~110 | 1.85 | 90 | - | 10 / 20 | - | 20k / 2k | 1.0mm | -55~+125 |
| | QT110P | | 3.84 | | | 30 / 50 | Armored | | | |
| High performance | QT67 | DC~67 | 2.4 | 90 | 7 | 12 / 24 | - | 20k / 5k | 1.85mm, Mini-SMP, SMP | -55~+125 |
| | QT67P | | 6 | | | 30 / 60 | Armored | | | |
| High performance | QT50 | DC~50 | 3.6 | 90 | 7 | 18 / 36 | - | 100k / 5k | 1.85mm, 2.4mm, 2.92mm, 3.5mm, SMA, N | -55~+125 |
| | QT50P | | 6 | | | 30 / 60 | Armored | | | |
| Ultra-flexible | QTF | DC~26.5 | 5.2 | 90 | - | 20.8 / 52 | - | 5k / 5k | SMA, N | -55~+85 |
| Economical | QTE | DC~18 | 4 | 90 | - | 20 / 40 | - | 2k / 1k | SMA, N | -55~+125 |

Attenuation & Power Handling

| Attenuation*1 & Power Handling*2 | Cables | 1 | 3 | 6 | 10 | 12.4 | 18 | 26.5 | 40 | 50 | 67 | 110 | Coefficient K |
|----------------------------------|--------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|----------------------------|
| | | | | | | | | | | | | | |
| Attenuation (dB/100m) | QT110 | 114 | 199 | 283 | 368 | 412 | 500 | 612 | 760 | 857 | 1003 | 1314 | K1=3.557846 K2=0.001220 |
| Avg. Power (W) | | 102 | 58 | 41 | 31 | 28 | 23 | 19 | 15 | 13 | 11 | 8 | |
| Attenuation (dB/100m) | QT67 | 64 | 112 | 161 | 210 | 236 | 288 | 355 | 445 | 503 | 594 | - | K1=1.975832 K2=0.001221 |
| Avg. Power (W) | | 97 | 54 | 38 | 29 | 25 | 21 | 17 | 14 | 12 | 10 | - | |
| Attenuation (dB/100m) | QT50 | 48.1 | 83.9 | 119.4 | 155.2 | 173.4 | 210.2 | 257.1 | 319.2 | 359.2 | - | - | K1=1.507808 K2=0.000440 |
| Avg. Power (W) | | 506 | 290 | 204 | 157 | 140 | 116 | 95 | 76 | 68 | - | - | |
| Attenuation (dB/100m) | QTF | 38.5 | 69.8 | 103.2 | 139.0 | 157.9 | 198.0 | 252.1 | - | - | - | - | K1=1.136600 K2=0.002530 |
| Avg. Power (W) | | 149 | 82 | 55 | 41 | 36 | 29 | 23 | - | - | - | - | |
| Attenuation (dB/100m) | QTE | 38.2 | 71.1 | 107.5 | 147.6 | 169.4 | 216.1 | - | - | - | - | - | K1=1.082677 K2=0.003937 |
| Avg. Power (W) | | 290 | 156 | 103 | 75 | 65 | 51 | - | - | - | - | - | |

[1] VSWR:1.0; Ambient: +25°C (77°F); Raw cable

Calculation Cable Attenuation: Attenuation (dB/100m) = K1 * √F (MHz) + K2 * F (MHz)

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

Calculation Connector attenuation of single connector: Attenuation (dB) = 0.03 * √F (GHz)

Description

QA series high-performance cable, with low loss and high power features, has good temperature vs. phase stability (750 PPM@-55~+85°C, max.) up to 50GHz. It is suitable for avionics, phased-array radar, satellite communication and other fields.

Features

- * Low Insertion Loss
- * High Phase Stability
- * High Power
- * Low PIM

Construction



| | 1 | 2 | 3 | 4 | 5 |
|---|-----------------|---|---|---|---|
| 1 | Inner Conductor | Silver plated copper (QA760 is Stranded silver-plated copper) | | | |
| 2 | Dielectric | Low density PTFE | | | |
| 3 | Inner Shield | Silver-plated copper tape | | | |
| 4 | Outer Shield | Silver-plated copper braid | | | |
| 5 | Jacket | PFA | | | |

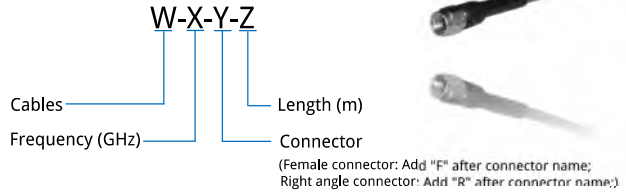
| Cables | Dimensions (mm) | | | | | Connector Options |
|--------|-----------------|------------|--------------|--------------|--------|--|
| | Inner Conductor | Dielectric | Inner Shield | Outer Shield | Jacket | |
| QA150 | 0.30 | 0.88 | 1.00 | 1.23 | 1.50 | 2.92mm, SMA |
| QA220 | 0.50 | 1.38 | 1.54 | 1.95 | 2.20 | 1.85mm, Mini-SMP, 2.4mm, 2.92mm, SSMA, SMP, 3.5mm, SMA |
| QA300 | 0.70 | 1.93 | 2.09 | 2.66 | 3.10 | 2.4mm, 2.92mm, 3.5mm, SMA, N |
| QA360 | 0.91 | 2.50 | 2.66 | 3.11 | 3.60 | 2.4mm, 2.92mm, SSMA, 3.5mm, SMA, N |
| QA400 | 1.05 | 2.85 | 3.05 | 3.40 | 4.00 | 2.92mm |
| QA480 | 1.40 | 3.80 | 3.95 | 4.35 | 4.80 | 2.92mm, 3.5mm, SMA, N, TNC |
| QA500 | 1.45 | 3.99 | 4.19 | 4.60 | 5.20 | 2.92mm, 3.5mm, SMA, N, TNC |
| QA550 | 1.60 | 4.30 | 4.50 | 5.10 | 5.60 | SMA, N |
| QA750 | 2.10 | 5.70 | 5.95 | 6.60 | 7.40 | SMA, N |
| QA760 | 2.39 | 6.25 | 6.49 | 7.06 | 7.65 | SMA, N |
| QA800 | 2.30 | 6.20 | 6.44 | 7.05 | 7.90 | SMA, N, TNC, SC, 7/16 DIN (L29) |
| QA830 | 2.44 | 6.50 | 6.90 | 7.65 | 8.30 | SMA, N |

Specifications

| | QA150 | QA220 | QA300 | QA360 | QA400 | QA480 | QA500 | QA550 | QA750 | QA760 | QA800 | QA830 |
|---------------------------------|----------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Freq. (GHz) | 40 | 50 | 50 | 40 | 40 | 26.5 | 26.5 | 18 | 18 | 18 | 18 | 18 |
| Cut-off Freq. (GHz) | 128 | 83 | 60 | 48 | 41 | 31 | 29 | 27 | 20 | 19 | 19 | 18 |
| Impedance (Ω) | 50 | | | | | | | | | | | |
| Velocity of Propagation (%) | 80 | 81 | 82 | 82 | 82 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| Shielding Effectiveness (dB) | > 90 | | | | | | | | | | | |
| Voltage Withstand (V DC) | 400 | 400 | 500 | 500 | 1500 | 1500 | 1500 | 2000 | 2500 | 2500 | 2500 | 2500 |
| PIM (dBc) | -155 | | | | | | | | | | | |
| Phase Stability (PPM@-55~+85°C) | < 1000 | < 750 | | | | | | | | | | |
| Outer Diameter (mm) | 1.50 | 2.20 | 3.10 | 3.60 | 4.00 | 4.80 | 5.20 | 5.60 | 7.40 | 7.65 | 7.9 | 8.30 |
| Installation Bend Radius (mm) | 8.0 | 8.8 | 15.0 | 18.0 | 20.0 | 24.0 | 26.0 | 28.0 | 37.0 | 38.0 | 39.0 | 41.0 |
| Repeated Bend Radius (mm) | 15.0 | 22.0 | 31.0 | 36.0 | 40.0 | 48.0 | 52.0 | 56.0 | 74.0 | 76.0 | 79.0 | 83.0 |
| Weight (g/m) | 5.4 | 16 | 29 | 33 | 40 | 58 | 67 | 93 | 125 | 137 | 130 | 162 |
| Temperature (°C) | -55~+125 | | | -55~+165 | | | | | | | | |

Connector Naming Rules

| | |
|--|--------------------------|
| 1 - 1.0mm (110GHz) | 3 - 3.5mm (33GHz) |
| V - 1.85mm (67GHz) | S - SMA (26.5GHz) |
| G - Mini-SMP (mateable with GPPO & SSMP 65GHz) | N - N (18GHz) |
| 2 - 2.4mm (50GHz) | T - TNC (18GHz) |
| K - 2.92mm (40GHz) | 7 - 7/16 DIN (L29, 6GHz) |
| P - SMP (40GHz) | E - SC (6GHz) |
| A - SSMA (40GHz) | |



Examples: QA220 cable assembly, DC-50GHz, 2.4mm male to 2.4mm female, 0.8 meter, specify QA220-50-22F-0.8.

| Attenuation*1 & Power Handling*2 | Cables | Freq.(G) | | | | | | | | | | Coefficient K |
|----------------------------------|--------|----------|-------|-------|-------|-------|---------|-------|-------|-------|-------|---------------|
| | | 0.3 | 1 | 2 | 6 | 10 | 12.4 | 18 | 26.5 | 40 | 50 | |
| Attenuation (dB/100m) | QA150 | 62.0 | 113.7 | 161.6 | 282.9 | 368 | 411.33 | 499.3 | 611.5 | 760.4 | 856.6 | K1=3.557846 |
| Avg. Power (W) | | - | 97 | 68 | 39 | 30 | 27 | 22 | 18 | 15 | - | K2=0.001221 |
| Attenuation (dB/100m) | QA220 | 34.6 | 63.7 | 90.8 | 160.4 | 209.8 | 235.2 | 287.1 | 354 | 444 | 502.8 | K1=1.975832 |
| Avg. Power (W) | | 178 | 97 | 68 | 38 | 29 | 26 | 21 | 17 | 14 | 12 | K2=0.001221 |
| Attenuation (dB/100m) | QA300 | 25.5 | 46.8 | 66.6 | 117.1 | 152.6 | 170.8 | 207.9 | 255.4 | 318.9 | 360.1 | K1=1.458470 |
| Avg. Power (W) | | 749 | 407 | 286 | 163 | 125 | 111 | 92 | 75 | 60 | 53 | K2=0.000680 |
| Attenuation (dB/100m) | QA360 | 20.4 | 37.5 | 53.4 | 93.9 | 122.4 | 137.018 | 166.7 | 204.8 | 255.7 | - | K1=1.168470 |
| Avg. Power (W) | | 936 | 509 | 358 | 203 | 156 | 139 | 115 | 93 | 75 | - | K2=0.000550 |
| Attenuation (dB/100m) | QA400 | 18.4 | 33.6 | 47.6 | 82.8 | 107.2 | 119.7 | 144.7 | 176.4 | 218.1 | - | K1=1.054470 |
| Avg. Power (W) | | 1159 | 634 | 447 | 257 | 198 | 178 | 147 | 120 | 97 | - | K2=0.000180 |
| Attenuation (dB/100m) | QA480 | 13.1 | 24.1 | 34.3 | 60.1 | 78.3 | 87.6 | 106.6 | 130.8 | - | - | K1=0.750400 |
| Avg. Power (W) | | 1689 | 919 | 644 | 368 | 282 | 252 | 207 | 169 | - | - | K2=0.000328 |
| Attenuation (dB/100m) | QA500 | 12.8 | 23.5 | 33.3 | 58.6 | 76.3 | 85.4 | 103.9 | 127.6 | - | - | K1=0.730000 |
| Avg. Power (W) | | 1688 | 919 | 646 | 368 | 281 | 251 | 207 | 169 | - | - | K2=0.000328 |
| Attenuation (dB/100m) | QA550 | 12.2 | 22.3 | 31.6 | 55.0 | 71.2 | 79.5 | 96.1 | - | - | - | K1=0.701472 |
| Avg. Power (W) | | 1873 | 1024 | 722 | 415 | 320 | 287 | 237 | - | - | - | K2=0.000110 |
| Attenuation (dB/100m) | QA750 | 8.6 | 15.8 | 22.5 | 39.1 | 50.7 | 56.6 | 68.5 | - | - | - | K1=0.496490 |
| Avg. Power (W) | | 3186 | 1740 | 1223 | 704 | 542 | 486 | 401 | - | - | - | K2=0.000104 |
| Attenuation (dB/100m) | QA760 | 9.8 | 18 | 25.7 | 45.3 | 59.2 | 66.3 | 80.9 | - | - | - | K1=0.559764 |
| Avg. Power (W) | | 2952 | 1604 | 1126 | 638 | 488 | 436 | 357 | - | - | - | K2=0.000320 |
| Attenuation (dB/100m) | QA800 | 8.0 | 14.8 | 21.1 | 37.3 | 48.9 | 54.8 | 67.0 | - | - | - | K1=0.456300 |
| Avg. Power (W) | | 3341 | 1812 | 1270 | 717 | 546 | 487 | 399 | - | - | - | K2=0.000320 |
| Attenuation (dB/100m) | QA830 | 7.2 | 13.3 | 18.9 | 33.6 | 44.1 | 49.5 | 60.6 | - | - | - | K1=0.408997 |
| Avg. Power (W) | | 3498 | 1894 | 1326 | 747 | 569 | 507 | 414 | - | - | - | K2=0.000320 |

[1] VSWR:1.0 ; Ambient: +25°C (77°F); Raw cable

[2] VSWR:1.0 ; Ambient: +40°C (104°F); Sea level

Calculation Cable Attenuation: Attenuation (dB/100m) = $K1 * \sqrt{F} \text{ (MHz)} + K2 * F \text{ (MHz)}$

Calculation Connector attenuation of single connector: Attenuation (dB) = $0.03 * \sqrt{F} \text{ (GHz)}$

Description

QB1200 & QB1500 have large outer diameter, low insertion loss, high power and bending durable features. They are used to all kinds of low loss and high power situation, such as phased-array radar, satellite communication, avionics, telecommunications, etc.



Examples: QB1200 cable assembly, DC-8GHz, N male to N female, 0.5 meter, specify QB1200-8-NNF-0.5.

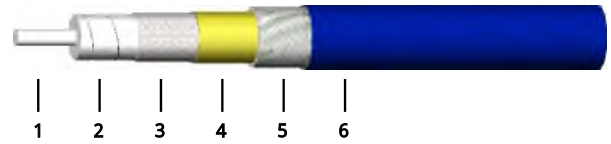
Connector Naming Rules

| | |
|---------------|--------------------------|
| N - N (18GHz) | 7 - 7/16 DIN (L29, 6GHz) |
| E - SC (6GHz) | |

Features

- * Low Insertion Loss
- * Low PIM
- * High Power

Construction



| | | |
|---|-----------------|-------------------------------|
| 1 | Inner Conductor | Stranded silver-plated copper |
| 2 | Dielectric | Low density PTFE |
| 3 | Inner Shield | Silver-plated copper tape |
| 4 | Interlayer | Aluminum tape |
| 5 | Outer Shield | Silver-plated copper braid |
| 6 | Jacket | FEP |

| Cables | Dimensions (mm) | | | | | | Connector Options |
|--------|-----------------|------------|--------------|------------|--------------|--------|----------------------|
| | Inner Conductor | Dielectric | Inner Shield | Interlayer | Outer Shield | Jacket | |
| QB1200 | 3.50 | 9.90 | 10.17 | 10.30 | 11.02 | 12.00 | N, SC, 7/16 DIN(L29) |
| QB1500 | 4.40 | 12.50 | 12.82 | 12.95 | 13.67 | 14.70 | N, 7/16 DIN(L29) |

Specifications

| Cables | Freq. (GHz) | Cut-off Freq. (GHz) | Impedance (Ω) | Velocity of Propagation (%) | Shielding Effectiveness (dB) | Voltage Withstand (V DC) | PIM (dBc) | Outer Diameter (mm) | Installation / Repeated Bend Radius (mm) | Weight (g/m) | Temperature (°C) |
|--------|-------------|---------------------|---------------|-----------------------------|------------------------------|--------------------------|-----------|---------------------|--|--------------|------------------|
| QB1200 | 8 | 11 | 50 | 76 | > 90 | 3000 | -155 | 12.00 | 60.0 / 120.0 | 310 | -55~+200 |
| QB1500 | 6 | 10 | | | | 4000 | | 14.70 | 76.0 / 150.0 | 400 | |

Attenuation & Power Handling

| Attenuation*1 & Power Handling*2 | Cables | Freq. (G) | 0.1 | 0.3 | 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | Coefficient K |
|----------------------------------|--------|-----------|-------|------|------|------|------|------|------|------|------|------|---------------|
| | | | | | | | | | | | | | |
| Attenuation (dB/100m) | QB1200 | | 4.0 | 7.0 | 9.1 | 13.0 | 18.8 | 23.3 | 27.2 | 30.7 | 33.9 | 39.8 | K1=0.391680 |
| Avg. Power (W) | | | 8450 | 4830 | 3713 | 2590 | 1793 | 1447 | 1238 | 1098 | 991 | 844 | |
| Attenuation (dB/100m) | QB1500 | | 3.1 | 5.5 | 7.1 | 10.3 | 14.8 | 18.5 | 21.6 | 24.5 | 27.2 | - | K1=0.304208 |
| Avg. Power (W) | | | 13440 | 7650 | 5870 | 4080 | 2818 | 2260 | 1928 | 1703 | 1537 | - | |

[1] VSWR:1.0; Ambient: +25°C (77°F); Raw cable

$$\text{Calculation Cable Attenuation: Attenuation (dB/100m)} = K1 * \sqrt{F \text{ (MHz)}} + K2 * F \text{ (MHz)}$$

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

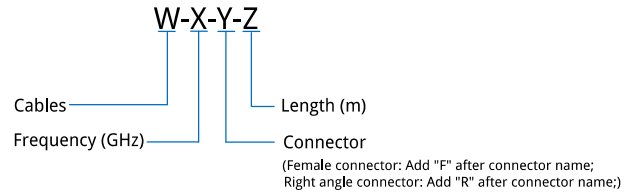
$$\text{Calculation Connector attenuation of single connector: Attenuation (dB)} = 0.03 * \sqrt{F \text{ (GHz)}}$$

Description

QG/QH series are both economical flexible cables. QG has low loss feature, otherwise, QH can replace semi-rigid cable, semi-flexible cable, and it is suitable for interconnection inside the equipment.

Features

- * Low Insertion Loss
- * High Phase Stability
- * High Power
- * Low PIM



Examples: QH280 cable assembly, DC~18GHz, SMA male to SMA female, 0.5 meter, specify QH280-18-SSF-0.5.



Connector Naming Rules

| | |
|---|-----------------|
| K - 2.92mm (40GHz) | N - N (18GHz) |
| P - SMP (40GHz) | T - TNC (18GHz) |
| A - SSMA (40GHz) | M - MCX (6GHz) |
| G - Mini-SMP (mateable with GPPO & SSMP, 40GHz) | X - MMCX (6GHz) |
| 3 - 3.5mm (33GHz) | B - BNC (4GHz) |
| S - SMA (26.5GHz) | D - SMB (4GHz) |
| I - BMA (18GHz) | |

Construction



| Cables | 1: Inner Conductor | 2: Dielectric | 3: Inner Shield | 4: Outer Shield | 5: Jacket |
|-----------------------|----------------------|------------------|-----------------------------|-----------------|--------------------|
| QH160 / QH280 / QH400 | Silver-plated copper | PTFE | Silver-plated copper tape | Silver-plated | FEP (QH160 is PFA) |
| QG360 / QG500 / QG800 | | Low density PTFE | Self-adhesive aluminum foil | copper braid | FEP |

| Cables | Dimensions (mm) | | | | | Connector Options |
|--------|--------------------|---------------|-----------------|-----------------|-----------|---|
| | 1: Inner Conductor | 2: Dielectric | 3: Inner Shield | 4: Outer Shield | 5: Jacket | |
| QH160 | 0.30 | 0.95 | 1.10 | 1.35 | 1.60 | Mini-SMP, SMP, SMA, MMCX, MCX |
| QH280 | 0.53 | 1.63 | 1.83 | 2.18 | 2.65 | 2.92mm, SMP, SMA, Mini-SMP, BMA, N, MMCX, MCX, BNC, SMB |
| QH400 | 0.94 | 3.00 | 3.20 | 3.55 | 4.00 | 2.92mm, SMP, SMA, BMA, N, MMCX, MCX, BNC, SMB |
| QG360 | 0.91 | 2.65 | 2.78 | 3.25 | 3.60 | 2.92mm, SSMA, 3.5mm, SMA, N |
| QG500 | 1.45 | 4.20 | 4.32 | 4.65 | 5.10 | 3.5mm, SMA, N, TNC |
| QG800 | 2.30 | 6.80 | 6.95 | 7.50 | 8.10 | SMA, N, TNC |

Specifications

| | QH160 | QH280 | QH400 | QG360 | QG500 | QG800 |
|-------------------------------|-----------|-------|-------|-------|-------|-------|
| Freq. (GHz) | 18 | 40 | 26.5 | 18 | 18 | 18 |
| Cut-off Freq. (GHz) | 110 | 62 | 34 | 40 | 28 | 19 |
| Impedance (Ω) | 50 | | | | | |
| Velocity of Propagation (%) | 70 | 70 | 70 | 76 | 76 | 76 |
| Shielding Effectiveness (dB) | > 90 | > 90 | > 90 | > 70 | > 70 | > 90 |
| Voltage Withstand (V DC) | 300 | 500 | 1500 | 1000 | 1500 | 2000 |
| Outer Diameter (mm) | 1.60 | 2.65 | 4.00 | 3.60 | 5.10 | 8.10 |
| Installation Bend Radius (mm) | 6.0 | 13.0 | 20.0 | 18.0 | 25.0 | 40.0 |
| Repeated Bend Radius (mm) | 16.0 | 26.0 | 40.0 | 36.0 | 51.0 | 81.0 |
| Weight (g/m) | 5 | 22 | 49 | 28 | 60 | 120 |
| Temperature (°C) | -55--+125 | | | | | |

Attenuation & Power Handling

| Attenuation*1 & Power Handling*2 | Cables | Freq. (G) | | | | | | | | | | | | Coefficient K |
|----------------------------------|--------|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|---------------|
| | | 0.3 | 0.5 | 1 | 2 | 6 | 8 | 10 | 12.4 | 18 | 26.5 | 40 | | |
| Attenuation (dB/100m) | QH160 | 73.8 | 95.4 | 135.2 | 191.7 | 334.0 | 386.6 | 433.0 | 483.2 | 584.7 | - | - | K1=4.248276 K2=0.000820 | |
| Avg. Power (W) | | 150 | 116 | 82 | 57 | 33 | 28 | 26 | 23 | 19 | - | - | | |
| Attenuation (dB/100m) | QH280 | 37.0 | 48.2 | 69.3 | 100.4 | 183.7 | 216.4 | 246.1 | 279.0 | 348.2 | 440.8 | 570.9 | K1=2.066929 K2=0.003937 | |
| Avg. Power (W) | | 187 | 171 | 119 | 82 | 45 | 38 | 33 | 30 | 24 | 19 | 14 | | |
| Attenuation (dB/100m) | QH400 | 19.9 | 26.2 | 38.2 | 56.3 | 107.5 | 128.3 | 147.6 | 169.4 | 216.1 | 280.6 | - | K1=1.082677 K2=0.003937 | |
| Avg. Power (W) | | 512 | 423 | 290 | 196 | 103 | 86 | 75 | 65 | 51 | 39 | - | | |
| Attenuation (dB/100m) | QG360 | 21.0 | 27.2 | 38.7 | 55.1 | 96.9 | 112.5 | 126.4 | 141.5 | 172.3 | - | - | K1=1.204032 K2=0.000600 | |
| Avg. Power (W) | | 850 | 657 | 462 | 325 | 185 | 159 | 141 | 126 | 104 | - | - | | |
| Attenuation (dB/100m) | QG500 | 12.8 | 16.6 | 23.8 | 34.3 | 62.1 | 73.0 | 82.7 | 93.4 | 115.9 | - | - | K1=0.718000 K2=0.001088 | |
| Avg. Power (W) | | 1428 | 1098 | 766 | 530 | 293 | 249 | 220 | 195 | 157 | - | - | | |
| Attenuation (dB/100m) | QG800 | 8.0 | 10.5 | 15.1 | 21.9 | 40.1 | 47.3 | 53.8 | 61.0 | 76.3 | - | - | K1=0.448000 K2=0.000898 | |
| Avg. Power (W) | | 3141 | 2409 | 1674 | 1152 | 629 | 533 | 469 | 413 | 331 | - | - | | |

[1] VSWR:1.0; Ambient: +25°C (77°F); Raw cable

 Calculation Cable Attenuation: Attenuation (dB/100m) = $K1 * \sqrt{F} \text{ (MHz)} + K2 * F \text{ (MHz)}$

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

 Calculation Connector attenuation of single connector: Attenuation (dB) = $0.03 * \sqrt{F} \text{ (GHz)}$

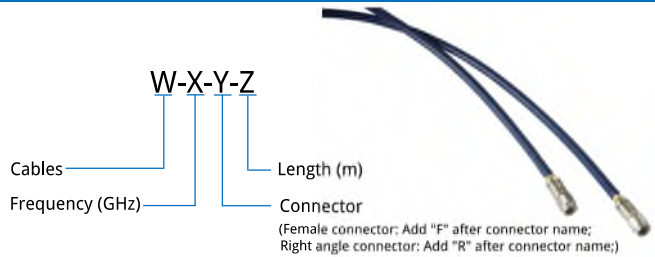
Description

QZ series is ultra flexible RF cable, suitable for phased-array radar, laboratory test and small & complicated interconnection occasions.

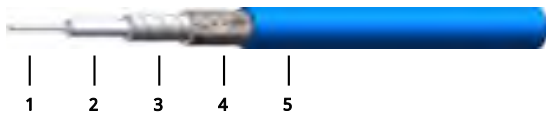
Features

* Ultra Flexibile

* Corrosion Resistance



Construction



| | | |
|---|-----------------|-------------------------------|
| 1 | Inner Conductor | Stranded Silver-plated copper |
| 2 | Dielectric | Low density PTFE |
| 3 | Inner Shield | Silver-plated copper tape |
| 4 | Outer Shield | Silver-plated copper braid |
| 5 | Jacket | PUR |

Examples: QZ360 cable assembly, DC~18GHz, SMA male to SMA female, 0.5 meter, specify QZ360-18-SSF-0.5.

Connector Naming Rules

| | |
|--------------------|-------------------|
| K - 2.92mm (40GHz) | S - SMA (26.5GHz) |
| A - SSMA (40GHz) | N - N (18GHz) |
| 3 - 3.5mm (33GHz) | T - TNC (18GHz) |

| Cables | Dimensions (mm) | | | | | Connector Options |
|--------|--------------------|---------------|-----------------|-----------------|-----------|-----------------------------|
| | 1: Inner Conductor | 2: Dielectric | 3: Inner Shield | 4: Outer Shield | 5: Jacket | |
| QZ360 | 0.72 | 2.05 | 2.22 | 2.66 | 3.60 | 2.92mm, SSMA, 3.5mm, SMA, N |
| QZ500 | 1.02 | 3.00 | 3.20 | 3.78 | 5.00 | 3.5mm, SMA, N |
| QZ600 | 1.44 | 4.25 | 4.45 | 4.90 | 5.90 | SMA, N |
| QZ800 | 1.88 | 5.50 | 5.74 | 6.31 | 8.00 | SMA, N, TNC |

Specifications

| Cables | Freq. (GHz) | Cut-off Freq. (GHz) | Impedance (Ω) | Velocity of Propagation (%) | Shielding Effectiveness (dB) | Voltage Withstand (V DC) | Outer Diameter (mm) | Installation / Repeated Bend Radius (mm) | Weight (g/m) | Temperature (°C) |
|--------|-------------|---------------------|---------------|-----------------------------|------------------------------|--------------------------|---------------------|--|--------------|------------------|
| QZ360 | 40 | 51 | 50 | 76 | > 90 | 500 | 3.60 | 18.0 / 36.0 | 30 | -55~+85 |
| QZ500 | 26.5 | 35 | | | | 1000 | 5.00 | 25.0 / 50.0 | 50 | |
| QZ600 | 26.5 | 29.5 | | | | 1700 | 5.90 | 30.0 / 60.0 | 82 | |
| QZ800 | 18 | 20 | | | | 1700 | 8.00 | 40.0 / 80.0 | 130 | |

Attenuation & Power Handling

| Attenuation*1 & Power Handling*2 | Freq. (G) Cables | 0.3 | 0.5 | 1 | 2 | 6 | 8 | 10 | 12.4 | 18 | 26.5 | 40 | Coefficient K |
|----------------------------------|---------------------|-----------------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|---------------|
| | | Attenuation (dB/100m) | QZ360 | 28.0 | 36.3 | 51.9 | 74.5 | 133.4 | 156.1 | 176.4 | 198.7 | 244.9 | |
| Avg. Power (W) | 220 | 169 | | 119 | 82 | 46 | 39 | 35 | 31 | 25 | 20 | 16 | K2=0.001806 |
| Attenuation (dB/100m) | QZ500 | 20.4 | 26.7 | 38.5 | 55.6 | 103.2 | 122.0 | 139.0 | 157.9 | 198.0 | 252.1 | - | K1=1.136600 |
| Avg. Power (W) | | 280 | 215 | 149 | 102 | 55 | 46 | 41 | 36 | 29 | 23 | - | K2=0.002530 |
| Attenuation (dB/100m) | QZ600 | 15.6 | 20.2 | 28.7 | 41.2 | 73.6 | 86.0 | 97.1 | 109.2 | 134.3 | 167.2 | - | K1=0.880600 |
| Avg. Power (W) | | 321 | 248 | 175 | 122 | 68 | 59 | 52 | 46 | 37 | 30 | - | K2=0.000900 |
| Attenuation (dB/100m) | QZ800 | 9.5 | 12.5 | 18.2 | 26.8 | 50.9 | 60.7 | 69.8 | 80.0 | 101.9 | - | - | K1=0.517315 |
| Avg. Power (W) | | 626 | 477 | 327 | 222 | 117 | 98 | 85 | 74 | 58 | - | - | K2=0.001806 |

[1] VSWR:1.0; Ambient: +25°C (77°F); Raw cable

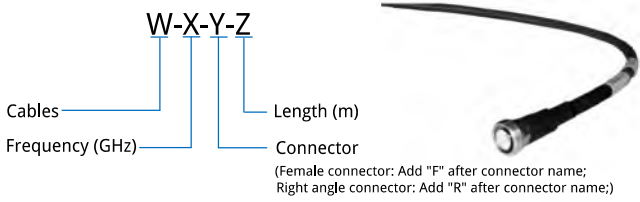
Calculation Cable Attenuation: Attenuation (dB/100m) = K1 * √F (MHz) + K2 * F (MHz)

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

Calculation Connector attenuation of single connector: Attenuation (dB) = 0.03 * √F (GHz)

Description

QY is low loss flexible cable, suitable for outdoor, such as wireless base station, satellite communication, maritime communication.



Examples: QY1000 cable assembly, DC~10GHz, N male to N female, 1.5 meters, specify QY1000-10-NNF-1.5.

Connector Naming Rules

| | |
|-------------------|-----------------|
| S - SMA (26.5GHz) | T - TNC (18GHz) |
| N - N (18GHz) | |

Features

- * Low Insertion Loss
- * High Weatherability
- * UV resistant

Construction



| | | |
|---|-----------------|----------------------------|
| 1 | Inner Conductor | Silver-plated copper |
| 2 | Dielectric | Low density PTFE |
| 3 | Inner Shield | Silver-plated copper tape |
| 4 | Interlayer | Aluminum tape |
| 5 | Outer Shield | Silver-plated copper braid |
| 6 | Jacket | PUR |

| Cables | Dimensions (mm) | | | | | | Connector Options |
|--------|--------------------|---------------|-----------------|---------------|-----------------|-----------|-------------------|
| | 1: Inner Conductor | 2: Dielectric | 3: Inner Shield | 4: Interlayer | 5: Outer Shield | 6: Jacket | |
| QY460 | 1.02 | 3.07 | 3.27 | 3.43 | 3.94 | 5.00 | SMA, N, TNC |
| QY520 | 1.29 | 3.91 | 4.15 | 4.28 | 4.79 | 6.00 | SMA, N |
| QY635 | 1.57 | 4.72 | 4.96 | 5.10 | 5.66 | 7.20 | SMA, N, TNC |
| QY1000 | 2.44 | 7.24 | 7.48 | 7.61 | 8.19 | 10.15 | N |

Specifications

| Cables | Freq. (GHz) | Cut-off Freq. (GHz) | Impedance (Ω) | Velocity of Propagation (%) | Shielding Effectiveness (dB) | Voltage Withstand (V DC) | Outer Diameter (mm) | Installation / Repeated Bend Radius (mm) | Weight (g/m) | Temperature (°C) | Outdoor Life (year) |
|--------|-------------|---------------------|---------------|-----------------------------|------------------------------|--------------------------|---------------------|--|--------------|------------------|---------------------|
| QY460 | 18 | 35 | 50 | 76 | > 70 | 1000 | 5.00 | 25.0 / 50.0 | 56 | -55~+85 | 20 |
| QY520 | 18 | 35 | | | | 1000 | 6.00 | 30.0 / 60.0 | 70 | | |
| QY635 | 18 | 27 | | | | 2000 | 7.20 | 36.0 / 72.0 | 89 | | |
| QY1000 | 10 | 15 | | | | 3000 | 10.15 | 50.0 / 100.0 | 190 | | |

Attenuation & Power Handling

| Attenuation*1 & Power Handling*2 | Cables | Freq. (G) | | | | | | | | | | Coefficient K |
|----------------------------------|--------|-----------|------|------|------|------|------|-------|-------|-------|-------|----------------------------|
| | | 0.1 | 0.3 | 0.5 | 1 | 3 | 6 | 8 | 10 | 12.4 | 18 | |
| Attenuation (dB/100m) | QY460 | 11.1 | 19.2 | 24.9 | 35.4 | 62.0 | 88.8 | 103.2 | 116.0 | 129.9 | 158.3 | K1=1.099485 K2=0.000602 |
| Avg. Power (W) | | 636 | 366 | 283 | 199 | 113 | 79 | 68 | 61 | 54 | 44 | |
| Attenuation (dB/100m) | QY520 | 8.6 | 15.0 | 19.4 | 27.7 | 48.7 | 69.9 | 81.4 | 91.5 | 102.7 | 125.5 | K1=0.856234 K2=0.000591 |
| Avg. Power (W) | | 843 | 484 | 374 | 263 | 149 | 104 | 88 | 79 | 71 | 58 | |
| Attenuation (dB/100m) | QY635 | 6.9 | 12.0 | 15.6 | 22.2 | 39.2 | 56.4 | 65.8 | 74.2 | 83.4 | 102.2 | K1=0.682743 K2=0.000591 |
| Avg. Power (W) | | 1150 | 660 | 509 | 357 | 202 | 140 | 120 | 107 | 95 | 77 | |
| Attenuation (dB/100m) | QY1000 | 4.5 | 7.9 | 10.3 | 14.7 | 26.2 | 38.2 | 44.7 | 50.6 | - | - | K1=0.446080 K2=0.000600 |
| Avg. Power (W) | | 3590 | 2053 | 1580 | 1104 | 619 | 425 | 363 | 321 | - | - | |

[1] VSWR:1.0; Ambient: +25°C (77°F); Raw cable

Calculation Cable Attenuation: Attenuation (dB/100m) = K1 * √F (MHz) + K2 * F (MHz)

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

Calculation Connector attenuation of single connector: Attenuation (dB) = 0.03 * √F (GHz)

Description

QR wireless communication cable, with low loss and low cost, is mainly used in communication field, and also can be used for microwave product interconnection.

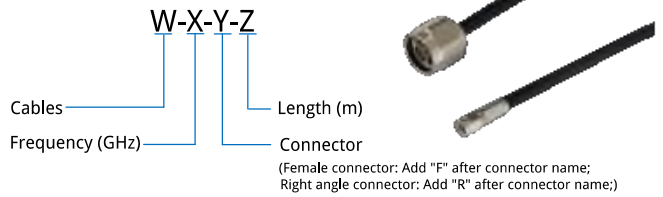
Connector Naming Rules

| | |
|----------------|--------------------------|
| S - SMA (6GHz) | 7 - 7/16 DIN (L29, 6GHz) |
| T - TNC (6GHz) | B - BNC (4GHz) |
| N - N (6GHz) | |

Features

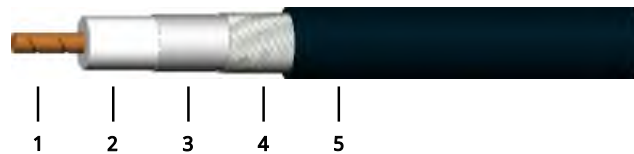
- * Low Insertion Loss
- * High Weatherability

*UV resistant



Examples: QR600 cable assembly, DC~5.8GHz, SMA male to SMA female, 1.5 meters, specify QR600-5.8-SSF-1.5.

Construction



| Cables | 1: Inner Conductor | 2: Dielectric | 3: Outer Conductor | 4: Outer Shield | 5: Jacket |
|----------------------------|----------------------|---------------|----------------------------|-------------------------|-----------|
| QR600 | Copper | Foamed PE | Double-edged aluminum foil | Tin-plated copper braid | PE or PVC |
| QR1000 / QR1500 | Copper-clad aluminum | Foamed PE | | | PE or PVC |
| QR600U / QR1000U / QR1500U | Stranded copper | Foamed PE | | | TPE |

| Cables | Dimensions (mm) | | | | | Connector Options |
|---------|--------------------|---------------|--------------------|-----------------|-----------|-------------------|
| | 1: Inner Conductor | 2: Dielectric | 3: Outer Conductor | 4: Outer Shield | 5: Jacket | |
| QR600 | 1.42 | 3.81 | 3.94 | 4.52 | 6.00 | SMA, N, BNC |
| QR600U | 1.42 | 3.81 | 3.94 | 4.52 | 6.00 | SMA, N, BNC |
| QR1000 | 2.74 | 7.24 | 7.39 | 8.13 | 10.00 | SMA, N, TNC |
| QR1000U | 2.74 | 7.24 | 7.39 | 8.13 | 10.30 | SMA, N, TNC |
| QR1500 | 4.47 | 11.56 | 11.72 | 12.45 | 15.00 | N, 7/16 DIN(L29) |
| QR1500U | 4.47 | 11.56 | 11.71 | 12.45 | 15.00 | N, 7/16 DIN(L29) |

Specifications

| | QR600 | QR600U | QR1000 | QR1000U | QR1500 | QR1500U |
|-------------------------------|----------|--------|----------|---------|----------|---------|
| Freq. (GHz) | 5.8 | 5.8 | 5.8 | 2 | 5.8 | 2 |
| Cut-off Freq. (GHz) | 30 | 31 | 16.2 | 16.2 | 10.3 | 10 |
| Impedance (Ω) | 50 | | | | | |
| Velocity of Propagation (%) | 83 | 84 | 84 | 85 | 87 | 87 |
| Shielding Effectiveness (dB) | > 90 | | | | | |
| Voltage Withstand (V DC) | 1500 | 1500 | 2500 | 2500 | 4000 | 4000 |
| Outer Diameter (mm) | 6.00 | 6.00 | 10.00 | 10.30 | 15.00 | 15.00 |
| Installation Bend Radius (mm) | 20.0 | 20.0 | 25.0 | 25.0 | 38.0 | 40.0 |
| Repeated Bend Radius (mm) | 65.0 | 65.0 | 100.0 | 100.0 | 152.0 | 80.0 |
| Weight (g/m) | 50 | 50 | 100 | 130 | 200 | 250 |
| Temperature (°C) | -40~+85 | | | | | |
| Outdoor Life (year) | 20 or 10 | 20 | 20 or 10 | 20 | 20 or 10 | 20 |

Attenuation & Power Handling (The attenuation in this table is typical value, and the maximum value is 1.1 times of the typical value.)

| Attenuation*1 & Power Handling*2 | Cables | Freq. (G) | | | | | | | | | | | Coefficient K |
|----------------------------------|---------|-----------|------|------|------|------|------|------|------|------|------|------|---------------|
| | | 0.03 | 0.05 | 0.15 | 0.22 | 0.45 | 0.9 | 1.5 | 1.8 | 2 | 2.5 | 5.8 | |
| Attenuation (dB/100m) | QR600 | 4.4 | 5.7 | 10.0 | 12.2 | 17.5 | 25.1 | 32.8 | 36.1 | 38.1 | 42.9 | 67.5 | K1=0.8038058 |
| Avg. Power (W) | | 1490 | 1150 | 660 | 540 | 380 | 260 | 200 | 180 | 170 | 150 | 100 | |
| Attenuation (dB/100m) | QR600U | 5.3 | 6.9 | 12.1 | 14.6 | 21.1 | 30.2 | 39.5 | 43.4 | 45.9 | 51.7 | 81.3 | K1=0.9678478 |
| Avg. Power (W) | | 1240 | 960 | 550 | 450 | 310 | 220 | 170 | 150 | 140 | 130 | 80 | |
| Attenuation (dB/100m) | QR1000 | 2.2 | 2.9 | 5.1 | 6.2 | 8.9 | 12.8 | 16.9 | 18.6 | 19.7 | 22.3 | 35.6 | K1=0.4022310 |
| Avg. Power (W) | | 3330 | 2570 | 1470 | 1200 | 830 | 580 | 440 | 400 | 370 | 330 | 210 | |
| Attenuation (dB/100m) | QR1000U | 2.7 | 3.5 | 6.1 | 7.4 | 10.7 | 15.4 | 20.3 | 22.4 | 23.7 | - | - | K1=0.4822835 |
| Avg. Power (W) | | 2770 | 2140 | 1220 | 1000 | 690 | 480 | 360 | 330 | 310 | - | - | |
| Attenuation (dB/100m) | QR1500 | 1.4 | 1.8 | 3.2 | 3.9 | 5.7 | 8.4 | 11.1 | 12.3 | 13.0 | 14.8 | 24.2 | K1=0.2526247 |
| Avg. Power (W) | | 5510 | 4240 | 2410 | 1970 | 1350 | 930 | 700 | 630 | 590 | 520 | 320 | |
| Attenuation (dB/100m) | QR1500U | 1.7 | 2.2 | 3.8 | 4.6 | 6.8 | 9.8 | 13.1 | 14.5 | 15.4 | - | - | K1=0.2974409 |
| Avg. Power (W) | | 4590 | 3540 | 2010 | 1640 | 1130 | 770 | 580 | 530 | 500 | - | - | |

[1] VSWR:1.0 ; Ambient: +25°C (77°F); Raw cable

Calculation Cable Attenuation: Attenuation (dB/100m) = $K1 * \sqrt{F} \text{ (MHz)} + K2 * F \text{ (MHz)}$

[2] VSWR:1.0 ; Ambient: +40°C (104°F); Sea level

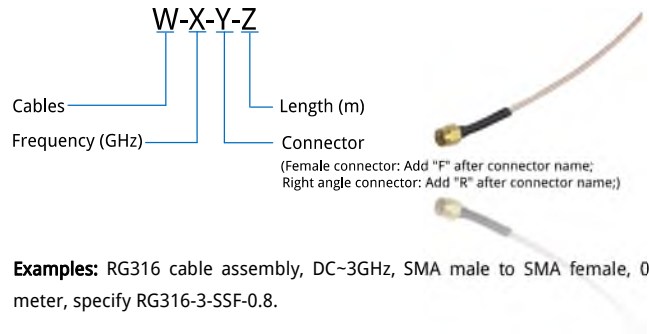
Calculation Connector attenuation of single connector: Attenuation (dB) = $0.03 * \sqrt{F} \text{ (GHz)}$

Description

RG cable is a kind of low cost cable, which is mainly used for the interconnection of microwave equipments.

Features

* Low Cost



Connector Naming Rules

| | |
|-------------------|-----------------|
| S - SMA (12.4GHz) | X - MMCX (6GHz) |
| N - N (12.4GHz) | M - MCX (6GHz) |
| T - TNC (12.4GHz) | B - BNC (4GHz) |
| I - BMA (12.4GHz) | D - SMB (4GHz) |

Specifications

| Cables | RG142 | RG223 | RG316 | |
|--|--------------------|--------------------------------------|--|--|
| Construction | | | | |
| Freq. (GHz) | 12.4 | 6 | 6 | |
| Cut-off Freq. (GHz) | - | 12.4 | - | |
| Impedance (Ω) | 50 | 50 | 50 | |
| Velocity of Propagation (%) | 70 | 66 | 70 | |
| Operating Voltage (V DC) | 1400 | 1400 | 600 | |
| Capacitance (pF/m) | 95 | 100 | 96 | |
| Material and Dimensions (mm) | 1: Inner Conductor | Silver-plated copper / 0.93 mm | Silver-plated copper / 0.9 mm | Stranded Silver-plated copper / 0.51 mm |
| | 2: Dielectric | PTFE / 2.98 mm | PE / 2.95 mm | FEP / 1.5 mm |
| | 3: Inner Shield | Silver-plated copper braid / 3.45 mm | Silver-plated copper braid / 96*0.12 mm | - |
| | 4: Outer Shield | Silver-plated copper braid / 3.95 mm | Silver-plated copper braid / 112*0.12 mm | Silver-plated copper braid / 1.95 mm (Corresponding to the 3rd layer of the structure diagram) |
| | 5: Jacket | FEP / 4.95 mm | PVC / 5.4 mm | FEP / 2.5 mm (Corresponding to the 4th layer of the structure diagram) |
| Installation / Repeated Bend Radius (mm) | 25.0 / 50.0 | 25.0 / 25.0 | - | |
| Connector Options | SMA, N, TNC, BNC | SMA, MMCX, MCX, BNC, SMB | SMA, MMCX, MCX, BNC, SMB, BMA | |
| Temperature (°C) | -55~+200 | -20~+80 | -55~+200 | |

Attenuation

| Attenuation (dB/100m) | Freq. (G) | Cables | | | | | | | | | | | | Coefficient K |
|-----------------------|-----------|--------|------|------|------|------|------|------|-------|-------|-----|-------|-------|-----------------------------|
| | | 0.05 | 0.1 | 0.2 | 0.4 | 0.5 | 0.9 | 1 | 2 | 3 | 5 | 6 | 12.4 | |
| RG142 | | - | 12.5 | - | 25.6 | - | - | 42 | - | 78.1 | 105 | 118.5 | 226.7 | - |
| RG223 | | 14 | 16 | 19 | 28 | 37 | 44 | - | 70 | 88 | - | 145 | - | - |
| RG316 | | 18.5 | 26.2 | 37.4 | 53.2 | 59.8 | 81.1 | 85.6 | 123.4 | 153.2 | - | 295 | - | K1=2.583794 K2= 0.003893 |

[1] VSWR:1.0; Ambient: +25°C (77°F); Raw cable

Calculation Cable Attenuation: Attenuation (dB/100m) = K1 * √F (MHz) + K2 * F (MHz)

Calculation Connector attenuation of single connector: Attenuation (dB) = 0.03 * √F (GHz)

Description

QD series is a kind of semi-flexible RF cable, whose shape could be formed manually. It is easy to assembly and often used for equipment interconnection.

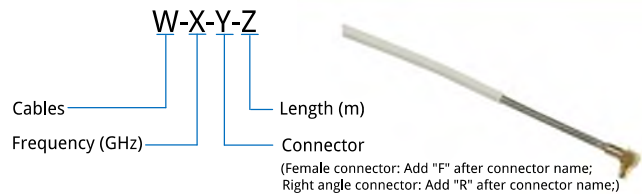
Features

- * Hand Formable
- * Quick and Easy Assembly

Construction



| | | |
|---|-----------------|-------------------------|
| 1 | Inner Conductor | Silver-plated copper |
| 2 | Dielectric | PTFE |
| 3 | Inner Shield | Tin-plated copper braid |



Examples: QD141 cable assembly, DC~4GHz, SMA male to SMA female, 0.5 meter, specify QD141-4-SSF-0.5.

Connector Naming Rules

| | |
|---|-----------------|
| K - 2.92mm (40GHz) | N - N (18GHz) |
| P - SMP (26.5GHz) | T - TNC (18GHz) |
| A - SSMA (26.5GHz) | M - MCX (6GHz) |
| 3 - 3.5mm (26.5GHz) | X - MMCX (6GHz) |
| S - SMA (26.5GHz) | B - BNC (4GHz) |
| G - Mini-SMP (mateable with GPPO & SSMP, 18GHz) | D - SMB (4GHz) |
| I - BMA (18GHz) | |

| Cables | Dimensions (mm) | | | Connector Options |
|--------|-----------------|------------|--------------|---|
| | Inner Conductor | Dielectric | Inner Shield | |
| QD086 | 0.53 | 1.65 | 2.17 | 2.92mm, SMP, SSMA, SMA, Mini-SMP, BMA, N, MMCX, MCX, BNC, SMB |
| QD141 | 0.94 | 2.98 | 3.55 | 3.5mm, SMP, SSMA, SMA, BMA, N, MMCX, MCX, BNC, SMB |
| QD250 | 1.65 | 5.25 | 6.30 | SMA, N |

Specifications

| Cables | Freq. (GHz) | Cut-off Freq. (GHz) | Impedance (Ω) | Velocity of Propagation (%) | Shielding Effectiveness (dB) | Voltage Withstand (V DC) | Outer Diameter (mm) | Installation / Repeated Bend Radius (mm) | Weight (g/m) | Temperature (°C) |
|--------|-------------|---------------------|---------------|-----------------------------|------------------------------|--------------------------|---------------------|--|--------------|------------------|
| QD086 | 40 | 61 | 50 | 70 | > 100 | 1000 | 2.17 | 10.0 / 20.0 | 20 | -55~+150 |
| QD141 | 6 | 34.4 | | | | 1500 | 3.55 | 17.75 / 35.5 | 50 | -55~+150 |
| QD250 | 6 | 19 | | | | 2500 | 6.30 | 20.0 / 40.0 | 140 | -55~+225 |

Attenuation and Power Handling

| Attenuation*1 & Power Handling*2 | Cables | Freq. (G) | | | | | | | | | | | | Coefficient K |
|----------------------------------|--------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|---------------|
| | | 0.3 | 0.5 | 1 | 2 | 6 | 8 | 10 | 12.4 | 18 | 26.5 | 40 | | |
| Attenuation (dB/100m) | QD086 | 38.2 | 49.8 | 71.9 | 104.6 | 193.8 | 229.1 | 261.4 | 297.4 | 373.6 | 476.6 | 622.6 | K1=2.115000 K2=0.004990 | |
| Avg. Power (W) | | 135 | 103 | 72 | 49 | 27 | 22 | 20 | 17 | 14 | 11 | 8 | | |
| Attenuation (dB/100m) | QD141 | 20.6 | 27.0 | 39.4 | 58.1 | 110.7 | - | - | - | - | - | - | K1=1.119870 K2=0.003986 | |
| Avg. Power (W) | | 311 | 237 | 163 | 110 | 58 | - | - | - | - | - | - | | |
| Attenuation (dB/100m) | QD250 | 12.1 | 16.03 | 23.60 | 35.23 | 69.09 | - | - | - | - | - | - | K1=0.645600 K2=0.003180 | |
| Avg. Power (W) | | 713 | 540 | 367 | 246 | 125 | - | - | - | - | - | - | | |

[1] VSWR:1.0 ; Ambient: +25°C (77°F); Raw cable

Calculation Cable Attenuation: Attenuation (dB/100m) = K1 * √F (MHz) + K2 * F (MHz)

[2] VSWR:1.0 ; Ambient: +40°C (104°F); Sea level

Calculation Connector attenuation of single connector: Attenuation (dB) = 0.03 * √F (GHz)

Description

QE series semi-rigid RF cable with low PIM, is used for internal connection of precision instruments.

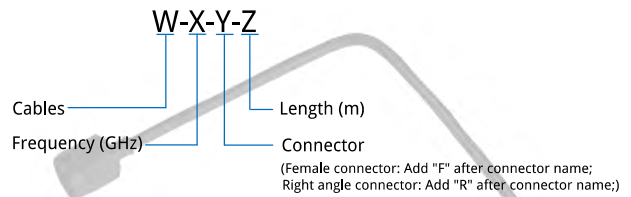
Features

* Low PIM

Construction



| | | |
|---|-----------------|---|
| 1 | Inner Conductor | Silver-plated copper |
| 2 | Dielectric | PTFE |
| 3 | Outer Shield | Ternary alloy plated seamless copper tube |



Examples: QE086 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify QE086-18-SSF-0.5.

Connector Naming Rules

| | |
|---|-----------------|
| 2 - 2.4mm (40GHz) | I - BMA (18GHz) |
| K - 2.92mm (40GHz) | N - N (18GHz) |
| P - SMP (26.5GHz) | T - TNC (18GHz) |
| A - SSMA (26.5GHz) | M - MCX (6GHz) |
| 3 - 3.5mm (26.5GHz) | X - MMCX (6GHz) |
| S - SMA (26.5GHz) | B - BNC (4GHz) |
| G - Mini-SMP (mateable with GPPO & SSMP, 18GHz) | D - SMB (4GHz) |

| Cables | Dimensions (mm) | | | Connector Options |
|--------|-----------------|------------|-----------------|--|
| | Inner Conductor | Dielectric | Outer Conductor | |
| QE020 | 0.127 | 0.432 | 0.580 | 2.92mm, SMP, Mini-SMP, SMA |
| QE047 | 0.28 | 0.92 | 1.20 | 2.92mm, SMP, Mini-SMP, SMA |
| QE086 | 0.53 | 1.68 | 2.18 | 2.4mm, 2.92mm, SMP, SSMA, SMA, Mini-SMP, BMA, N, MMCX, MCX, BNC, SMB |
| QE141 | 0.94 | 2.98 | 3.58 | 3.5mm, SMP, SSMA, SMA, BMA, N, MMCX, MCX, BNC, SMB |

Specifications

| Cables | Freq. (GHz) | Cut-off Freq. (GHz) | Impedance (Ω) | Velocity of Propagation (%) | Shielding Effectiveness (dB) | Voltage Withstand (V DC) | Outer Diameter (mm) | Installation Bend Radius (mm) | Weight (g/m) | Temperature (°C) |
|--------|-------------|---------------------|---------------|-----------------------------|------------------------------|--------------------------|---------------------|-------------------------------|--------------|------------------|
| QE020 | 40 | 110 | 50 | 70 | > 165 | 100 | 0.580 | 1.27 | 2 | -55~+125 |
| QE047 | 40 | 110 | | | | 100 | 1.20 | 4.2 | 3 | |
| QE086 | 40 | 64 | | | | 400 | 2.18 | 7 | 19 | |
| QE141 | 26.5 | 34 | | | | 500 | 3.58 | 15 | 46 | |

Attenuation & Power Handling

| Attenuation*1 & Power Handling*2 | Cables | Freq. (G) | | | | | | | | | |
|----------------------------------|--------|-----------|------|------|-------|-------|-------|-------|-------|-------|----------------------------|
| | | 0.3 | 0.5 | 1 | 6 | 10 | 12.4 | 18 | 26.5 | 40 | Coefficient K |
| Attenuation (dB/100m) | QE020 | 130 | 170 | 240 | 600 | 780 | 870 | 1060 | 1300 | 1620 | K1=7.5016 K2=0.0029 |
| Avg. Power (W) | | 99 | 77 | 54 | 22 | 17 | 15 | 12 | 10 | 8 | |
| Attenuation (dB/100m) | QE047 | 60 | 80 | 114 | 290 | 380 | 430 | 520 | 650 | 820 | K1=3.5016 K2=0.0029 |
| Avg. Power (W) | | 109 | 84 | 59 | 23 | 18 | 16 | 13 | 10 | 8 | |
| Attenuation (dB/100m) | QE086 | 35.0 | 45.5 | 64.9 | 166.6 | 219.9 | 247.6 | 304.9 | 379.9 | 482.7 | K1=1.985320 K2=0.002140 |
| Avg. Power (W) | | 475 | 366 | 256 | 100 | 76 | 67 | 55 | 44 | 34 | |
| Attenuation (dB/100m) | QE141 | 20.3 | 26.5 | 38.2 | 102.4 | 137.7 | 156.4 | 195.9 | 249.2 | - | K1=1.131702 K2=0.002450 |
| Avg. Power (W) | | 1020 | 782 | 542 | 203 | 151 | 133 | 106 | 83 | - | |

[1] VSWR:1.0; Ambient: +25°C (77°F);

Calculation Cable Attenuation: Attenuation (dB/100m) = K1 * √F (MHz) + K2 * F (MHz)

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

Calculation Connector attenuation of single connector: Attenuation (dB)= 0.03 * √F (GHz)

Description

Coaxial adapter is widely used when the two connectors do not match each other. It features wide frequency band, high performance, high reliability and long life cycle.

Features: DC~110GHz, Low VSWR, High Durable & Reliable.

Applications: Laboratory Test, Radar, Instrumentation etc.

Coaxial Adapters



| Part Number | Freq. (GHz) | VSWR | Description | Temperature(°C) |
|-------------|-------------|------|--------------------------|-----------------|
| QA11-MM | | | 1.0mm (m) to 1.0mm (m) | |
| QA11-FF | DC~110 | 1.35 | 1.0mm (f) to 1.0mm (f) | -55~+85 |
| QA11-MF | | | 1.0mm (m) to 1.0mm (f) | |
| QA1V-MM | | | 1.0mm (m) to 1.85mm (m) | |
| QA1V-MF | DC~67 | 1.3 | 1.0mm (m) to 1.85mm (f) | -55~+165 |
| QA1V-FF | | | 1.0mm (f) to 1.85mm (f) | |
| QA1V-FM | | | 1.0mm (f) to 1.85mm (m) | |
| QAVV-MM | | | 1.85mm (m) to 1.85mm (m) | |
| QAVV-MF | DC~67 | 1.25 | 1.85mm (m) to 1.85mm (f) | -55~+125 |
| QAVV-FF | | | 1.85mm (f) to 1.85mm (f) | |
| QAVG-MM | DC~67 | 1.3 | 1.85mm (m) to SSMP (m) | -55~+125 |
| QAVG-FF | | | 1.85mm (f) to SSMP (f) | |
| QAV2-MM | | | 1.85mm (m) to 2.4mm (m) | |
| QAV2-MF | DC~50 | 1.2 | 1.85mm (m) to 2.4mm (f) | -55~+125 |
| QAV2-FM | | | 1.85mm (f) to 2.4mm (m) | |
| QAV2-FF | | | 1.85mm (f) to 2.4mm (f) | |
| QA22-MM | | | 2.4mm (m) to 2.4mm (m) | |
| QA22-MF | DC~50 | 1.25 | 2.4mm (m) to 2.4mm (f) | -60~+165 |
| QA22-FF | | | 2.4mm (f) to 2.4mm (f) | |
| QAVK-MM | | | 1.85mm (m) to 2.92mm (m) | |
| QAVK-MF | DC~40 | 1.15 | 1.85mm (m) to 2.92mm (f) | -55~+165 |
| QAVK-FM | | | 1.85mm (f) to 2.92mm (m) | |
| QAVK-FF | | | 1.85mm (f) to 2.92mm (f) | |
| QAG2-MM | | | SSMP (m) to 2.4mm (m) | |
| QAG2-MF | DC~40 | 1.22 | SSMP (m) to 2.4mm (f) | -55~+165 |
| QAG2-FM | | | SSMP (f) to 2.4mm (m) | |
| QAG2-FF | | | SSMP (f) to 2.4mm (f) | |
| QAGK-MM | | | SSMP (m) to 2.92mm (m) | |
| QAGK-MF | DC~40 | 1.2 | SSMP (m) to 2.92mm (f) | -60~+165 |
| QAGK-FM | | | SSMP (f) to 2.92mm (m) | |
| QAGK-FF | | | SSMP (f) to 2.92mm (f) | |

| Part Number | Freq. (GHz) | VSWR | Description | Temperature(°C) |
|-------------|-------------|------|--------------------------|-----------------|
| QA2K-MM | | | 2.4mm (m) to 2.92mm (m) | |
| QA2K-MF | DC~40 | 1.25 | 2.4mm (m) to 2.92mm (f) | -60~+165 |
| QA2K-FM | | | 2.4mm (f) to 2.92mm (m) | |
| QA2K-FF | | | 2.4mm (f) to 2.92mm (f) | |
| QA2P-MM | | | 2.4mm (m) to SMP (m) | |
| QA2P-MF | DC~40 | 1.5 | 2.4mm (m) to SMP (f) | -50~+85 |
| QA2P-FM | | | 2.4mm (f) to SMP (m) | |
| QA2P-FF | | | 2.4mm (f) to SMP (f) | |
| QAKP-MM | | | 2.92mm (m) to SMP (m) | |
| QAKP-MF | DC~40 | 1.25 | 2.92mm (m) to SMP (f) | -60~+165 |
| QAKP-FM | | | 2.92mm (f) to SMP (m) | |
| QAKP-FF | | | 2.92mm (f) to SMP (f) | |
| QAKK-MM | | | 2.92mm (m) to 2.92mm (m) | |
| QAKK-MF | DC~40 | 1.25 | 2.92mm (m) to 2.92mm (f) | -60~+165 |
| QAKK-FF | | | 2.92mm (f) to 2.92mm (f) | |
| QAV3-MM | | | 1.85mm (m) to 3.5mm (m) | |
| QAV3-MF | DC~33 | 1.15 | 1.85mm (m) to 3.5mm (f) | -55~+125 |
| QAV3-FM | | | 1.85mm (f) to 3.5mm (m) | |
| QAV3-FF | | | 1.85mm (f) to 3.5mm (f) | |
| QA23-MM | | | 2.4mm (m) to 3.5mm (m) | |
| QA23-MF | DC~33 | 1.15 | 2.4mm (m) to 3.5mm (f) | -60~+165 |
| QA23-FM | | | 2.4mm (f) to 3.5mm (m) | |
| QA23-FF | | | 2.4mm (f) to 3.5mm (f) | |
| QAK3-MM | | | 2.92mm (m) to 3.5mm (m) | |
| QAK3-MF | DC~33 | 1.18 | 2.92mm (m) to 3.5mm (f) | -55~+165 |
| QAK3-FM | | | 2.92mm (f) to 3.5mm (m) | |
| QAK3-FF | | | 2.92mm (f) to 3.5mm (f) | |
| QA33-MM | | | 3.5mm (m) to 3.5mm (m) | |
| QA33-MF | DC~33 | 1.15 | 3.5mm (m) to 3.5mm (f) | -55~+125 |
| QA33-FF | | | 3.5mm (f) to 3.5mm (f) | |
| QAGS-FM | | | SSMP (f) to SMA (m) | |
| QAGS-MM | DC~26.5 | 1.3 | SSMP (m) to SMA (m) | -55~+125 |
| QAGS-FF | | | SSMP (f) to SMA (f) | |
| QAGS-MF | | | SSMP (m) to SMA (f) | |
| QAAA-MM | | | SSMA (m) to SSMA (m) | |
| QAAA-FF | DC~26.5 | 1.2 | SSMA (f) to SSMA (f) | -55~+165 |
| QAPS-MM | | | SMP (m) to SMA (m) | |
| QAPS-MF | DC~26.5 | 1.25 | SMP (m) to SMA (f) | -55~+85 |
| QAPS-FM | | | SSMP (f) to SMA (m) | |
| QAPS-FF | | | SMP (f) to SMA (f) | |
| QAAS-MM | | | SSMA (m) to SMA (m) | |
| QAAS-MF | DC~26.5 | 1.3 | SSMA (m) to SMA (f) | -55~+85 |
| QAAS-FM | | | SSMA (f) to SMA (m) | |
| QAAS-FF | | | SSMA (f) to SMA (f) | |

| Part Number | Freq. (GHz) | VSWR | Description | Temperature(°C) |
|-------------|-------------|------|---------------------------------------|-----------------|
| QASS-MM | | | SMA (m) to SMA (m) | |
| QASS-MF | DC~26.5 | 1.3 | SMA (m) to SMA (f) | -55~+85 |
| QASS-FF | | | SMA (f) to SMA (f) | |
| QASS-MM-A | | | SMA (m) to SMA (m) | |
| QASS-MF-A | DC~26.5 | 1.2 | SMA (m) to SMA (f) | -55~+85 |
| QASS-FF-A | | | SMA (f) to SMA (f) | |
| QASS-MM-B | | | SMA (m) to SMA (m) ,brass | |
| QASS-MF-B | DC~26.5 | 1.2 | SMA (m) to SMA (f) ,brass | -55~+85 |
| QASS-FF-B | | | SMA (f) to SMA (f) ,brass | |
| QA2N-MM | | | 2.4mm (m) to N (m) | |
| QA2N-MF | DC~18 | 1.15 | 2.4mm (m) to N (f) | -60~+165 |
| QA2N-FM | | | 2.4mm (f) to N (m) | |
| QA2N-FF | | | 2.4mm (f) to N (f) | |
| QAKN-MM | | | 2.92mm (m) to N (m) | |
| QAKN-MF | DC~18 | 1.15 | 2.92mm (m) to N (f) | -55~+125 |
| QAKN-FM | | | 2.92mm (f) to N (m) | |
| QAKN-FF | | | 2.92mm (f) to N (f) | |
| QA3N-MM | | | 3.5mm (m) to N (m) | |
| QA3N-MF | DC~18 | 1.2 | 3.5mm (m) to N (f) | -55~+165 |
| QA3N-FM | | | 3.5mm (f) to N (m) | |
| QA3N-FF | | | 3.5mm (f) to N (f) | |
| QASN-MM | | | SMA (m) to N (m) | |
| QASN-MF | DC~18 | 1.15 | SMA (m) to N (f) | -50~+85 |
| QASN-FM | | | SMA (f) to N (m) | |
| QASN-FF | | | SMA (f) to N (f) | |
| QASN-MM-B | | | SMA (m) to N (m), Nickel plated brass | |
| QASN-MF-B | DC~18 | 1.20 | SMA (m) to N (f), Nickel plated brass | -50~+85 |
| QASN-FM-B | | | SMA (f) to N (m), Nickel plated brass | |
| QASN-FF-B | | | SMA (f) to N (f), Nickel plated brass | |
| QAST-MM | | | SMA (m) to TNC (m) | |
| QAST-MF | DC~18 | 1.25 | SMA (m) to TNC (f) | -50~+85 |
| QAST-FM | | | SMA (f) to TNC (m) | |
| QAST-FF | | | SMA (f) to TNC (f) | |
| QASQ-MM | | | SMA (m) to QMA (m) | |
| QASQ-MF | DC~18 | 1.25 | SMA (m) to QMA (f) | -55~+165 |
| QASQ-FM | | | SMA (f) to QMA (m) | |
| QASQ-FF | | | SMA (f) to QMA (f) | |
| QASI-FM | | | SMA (f) to BMA (m) | |
| QASI-FF | DC~18 | 1.25 | SMA (f) to BMA (f) | -55~+85 |
| QASI-MF | | | SMA (m) to BMA (f) | |
| QASI-MM | | | SMA (m) to BMA (m) | |
| QANN-MM | | | N (m) to N (m) | |
| QANN-MF | DC~18 | 1.15 | N (m) to N (f) | -55~+85 |
| QANN-FF | | | N (f) to N (f) | |

| Part Number | Freq. (GHz) | VSWR | Description | Temperature(°C) |
|-------------|-------------|------|---|-----------------|
| QATT-MM | | | TNC (m) to TNC (m) | |
| QATT-MF | DC~18 | 1.25 | TNC (m) to TNC (f) | -50~+85 |
| QATT-FF | | | TNC (f) to TNC (f) | |
| QANJ-F | DC~18 | 1.15 | N (f) to 7.0mm | -55~+125 |
| QANJ-M | | | N (m) to 7.0mm | |
| QATN-MM | | | TNC (m) to N (m) | |
| QATN-MF | DC~18 | 1.3 | TNC (m) to N (f) | -55~+165 |
| QATN-FM | | | TNC (f) to N (m) | |
| QATN-FF | | | TNC (f) to N (f) | |
| QANE-MM | | | N (m) to SC (m) | |
| QANE-MF | DC~8 | 1.15 | N (m) to SC (f) | -55~+165 |
| QANE-FM | | | N (f) to SC (m) | |
| QANE-FF | | | N (f) to SC (f) | |
| QAN7-MM | | | N (m) to 7/16 DIN (m) | |
| QAN7-MF | DC~7.5 | 1.1 | N (m) to 7/16 DIN (f) | -40~+85 |
| QAN7-FM | | | N (f) to 7/16 DIN (m) | |
| QAN7-FF | | | N (f) to 7/16 DIN (f) | |
| QASB-MM-B | | | SMA (m) to BNC (m), Nickel plated brass | |
| QASB-FM-B | DC~6 | 1.35 | SMA (f) to BNC (m), Nickel plated brass | -55~+155 |
| QASB-MF-B | | | SMA (m) to BNC (f), Nickel plated brass | |
| QASB-FF-B | | | SMA (f) to BNC (f), Nickel plated brass | |
| QASD-FM | DC~6 | 1.35 | SMA (f) to SMB (m) | -55~+125 |
| QASD-FF | | | SMA (f) to SMB (f) | |
| QASQ-MM-B | | | SMA (m) to QMA (m) | |
| QASQ-MF-B | DC~6 | 1.25 | SMA (m) to QMA (f) | -40~+85 |
| QASQ-FM-B | | | SMA (f) to QMA (m) | |
| QASQ-FF-B | | | SMA (f) to QMA (f) | |
| QASX-F | DC~6 | 1.25 | SMA (f) to MMCX (f) | -55~+155 |
| QAN7-MM | | | N (m) to 7/16 DIN (m) | |
| QAN7-MF | DC~6 | 1.25 | N (m) to 7/16 DIN (f) | -55~+125 |
| QAN7-FM | | | N (f) to 7/16 DIN (m) | |
| QAN7-FF | | | N (f) to 7/16 DIN (f) | |
| QANB-MM | | | N (m) to BNC (m) | |
| QANB-MF | DC~6 | 1.2 | N (m) to BNC (f) | -55~+85 |
| QANB-FM | | | N (f) to BNC (m) | |
| QANB-FF | | | N (f) to BNC (f) | |
| QANB-MM-B | | | N (m) to BNC (m) | |
| QANB-MF-B | DC~6 | 1.35 | N (m) to BNC (f) | -55~+155 |
| QANB-FM-B | | | N (f) to BNC (m) | |
| QANB-FF-B | | | N (f) to BNC (f) | |
| QAEE-MM | | | SC (m) to SC (m) | |
| QAEE-MF | DC~6 | 1.25 | SC (m) to SC (f) | -55~+85 |
| QAEE-FF | | | SC (f) to SC (f) | |

| Part Number | Freq. (GHz) | VSWR | Description | Temperature(°C) |
|-------------|-------------|------|------------------------|-----------------|
| QAE7-MM | | | SC (m) to 7/16 DIN (m) | |
| QAE7-MF | DC~6 | 1.25 | SC (m) to 7/16 DIN (f) | -55~+85 |
| QAE7-FM | | | SC (f) to 7/16 DIN (m) | |
| QAE7-FF | | | SC (f) to 7/16 DIN (f) | |

Coaxial Adapters, Right Angle



| Part Number | Freq. (GHz) | VSWR | Description | Temperature (°C) |
|-------------|-------------|------|---------------------------------------|------------------|
| QAVVR-MM | | | 1.85mm (m) to 1.85mm (m), right angle | |
| QAVVR-MF | DC~67 | 1.25 | 1.85mm (m) to 1.85mm (f), right angle | -55~+125 |
| QAVVR-FF | | | 1.85mm (f) to 1.85mm (f), right angle | |
| QAV2R-MM | | | 1.85mm (m) to 2.4mm (m), right angle | |
| QAV2R-MF | DC~50 | 1.2 | 1.85mm (m) to 2.4mm (f), right angle | -55~+125 |
| QAV2R-FM | | | 1.85mm (f) to 2.4mm (m), right angle | |
| QAV2R-FF | | | 1.85mm (f) to 2.4mm (m), right angle | |
| QA22R-MM | | | 2.4mm (m) to 2.4mm (m), right angle | |
| QA22R-MF | DC~50 | 1.25 | 2.4mm (m) to 2.4mm (f), right angle | -60~+165 |
| QA22R-FF | | | 2.4mm (f) to 2.4mm (f), right angle | |
| QAVKR-MM | | | 1.85mm (m) to 2.92mm (m), right angle | |
| QAVKR-MF | DC~40 | 1.15 | 1.85mm (m) to 2.92mm (f), right angle | -55~+165 |
| QAVKR-FM | | | 1.85mm (f) to 2.92mm (m), right angle | |
| QAVKR-FF | | | 1.85mm (f) to 2.92mm (f), right angle | |
| QA2KR-MM | | | 2.4mm (m) to 2.92mm (m), right angle | |
| QA2KR-MF | DC~40 | 1.25 | 2.4mm (m) to 2.92mm (f), right angle | -60~+165 |
| QA2KR-FM | | | 2.4mm (f) to 2.92mm (m), right angle | |
| QA2KR-FF | | | 2.4mm (f) to 2.92mm (f), right angle | |
| QAKKR-MM | | | 2.92mm (m) to 2.92mm (m), right angle | |
| QAKKR-MF | DC~40 | 1.25 | 2.92mm (m) to 2.92mm (f), right angle | -60~+165 |
| QAKKR-FF | | | 2.92mm (f) to 2.92mm (f), right angle | |
| QAV3R-MM | | | 1.85mm (m) to 3.5mm (m), right angle | |
| QAV3R-MF | DC~33 | 1.25 | 1.85mm (m) to 3.5mm (f), right angle | -55~+125 |
| QAV3R-FM | | | 1.85mm (f) to 3.5mm (m), right angle | |
| QAV3R-FF | | | 1.85mm (f) to 3.5mm (f), right angle | |
| QA23R-MM | | | 2.4mm (m) to 3.5mm (m), right angle | |
| QA23R-MF | DC~33 | 1.25 | 2.4mm (m) to 3.5mm (f), right angle | -60~+165 |
| QA23R-FM | | | 2.4mm (f) to 3.5mm (m), right angle | |
| QA23R-FF | | | 2.4mm (f) to 3.5mm (f), right angle | |
| QAK3R-MM | | | 2.92mm (m) to 3.5mm (m), right angle | |
| QAK3R-MF | DC~33 | 1.25 | 2.92mm (m) to 3.5mm (f), right angle | -55~+165 |
| QAK3R-FM | | | 2.92mm (f) to 3.5mm (m), right angle | |
| QAK3R-FF | | | 2.92mm (f) to 3.5mm (f), right angle | |
| QA33R-MM | | | 3.5mm (m) to 3.5mm (m), right angle | |
| QA33R-MF | DC~33 | 1.25 | 3.5mm (m) to 3.5mm (f), right angle | -55~+125 |
| QA33R-FF | | | 3.5mm (f) to 3.5mm (f), right angle | |

| Part Number | Freq. (GHz) | VSWR | Description | Temperature (°C) |
|-------------|-------------|------|--|------------------|
| QASSR-MM | | | SMA (m) to SMA (m), right angle | |
| QASSR-MF | DC~18 | 1.3 | SMA (m) to SMA (f), right angle | -55~+85 |
| QASSR-FF | | | SMA (f) to SMA (f), right angle | |
| QASSR-MM-A | | | SMA (m) to SMA (m), right angle | |
| QASSR-MF-A | DC~18 | 1.2 | SMA (m) to SMA (f), right angle | -55~+85 |
| QASSR-FF-A | | | SMA (f) to SMA (f), right angle | |
| QASSR-MM-B | | | SMA (m) to SMA (m), right angle, gold plated brass | |
| QASSR-MF-B | DC~18 | 1.2 | SMA (m) to SMA (f), right angle, gold plated brass | -55~+85 |
| QASSR-FF-B | | | SMA (f) to SMA (f), right angle, gold plated brass | |
| QANNR-MM | | | N (m) to N (m), right angle | |
| QANNR-MF | DC~18 | 1.15 | N (m) to N (f), right angle | -55~+85 |
| QANNR-FF | | | N (f) to N (f), right angle | |

Coaxial Adapters, Quick Connect

| Part Number | Freq. (GHz) | VSWR | Description | Temperature (°C) |
|-------------|-------------|------|--------------------------|------------------|
| QASQS-MM | | | SMA (m) to quick SMA (m) | |
| QASQS-FM | DC~26.5 | 1.3 | SMA (f) to quick SMA (m) | - |
| QASQS-FM-B | DC~18 | 1.35 | SMA (f) to quick SMA (m) | - |

Coaxial Adapters, Reverse-polarity


| Part Number | Freq. (GHz) | VSWR | Description | Temperature (°C) |
|-------------|-------------|------|--|------------------|
| QASS-MRPF | | | SMA (m) reverse-polarity to SMA (f) | |
| QASS-MFRP | DC~18 | 1.2 | SMA (m) to SMA (f) reverse-polarity | -55~+85 |
| QASS-FRPF | | | SMA (f) reverse-polarity to SMA (f) reverse-polarity | |
| QASS-FRPF-B | | | SMA (f) reverse-polarity to SMA (f) | |
| QASS-MRPF-B | DC~6 | 1.15 | SMA (m) reverse-polarity to SMA (f) | -55~+165 |
| QASS-MRPF-B | | | SMA (m) reverse-polarity to SMA (m) reverse-polarity | |
| QASS-MFRP-B | | | SMA (m) to SMA (f) reverse-polarity | |

Coaxial Adapters, NMD

| Part Number | Freq. (GHz) | VSWR | Description | Temperature (°C) |
|-------------|-------------|------|------------------------------|------------------|
| QAMVV-FF | DC~67 | 1.25 | NMD 1.85mm (f) to 1.85mm (f) | -60~+165 |

Coaxial Adapters, Bulk Head


| Part Number | Freq.(GHz) | VSWR | Description | Temperature(°C) |
|-------------|------------|------|--|-----------------|
| QA11H-FF | DC~110 | 1.3 | 1.0mm (f) to 1.0mm (f), bulk head | -55~+85 |
| QAVVH-FF | DC~67 | 1.25 | 1.85mm (f) to 1.85mm (f), bulk head | -55~+125 |
| QA22H-FF | DC~50 | 1.25 | 2.4mm (f) to 2.4mm (f), bulk head | -60~+165 |
| QA33H-FF | DC~33 | 1.25 | 3.5mm (f) to 3.5mm (f), bulk head | -55~+125 |
| QAKKH-FF | DC~40 | 1.25 | 2.92mm (f) to 2.92mm (f), bulk head | -60~+165 |
| QASSH-FF | DC~18 | 1.3 | SMA (f) to SMA (f), bulk head | -55~+85 |
| QASSH-MF-A | DC~26.5 | 1.2 | SMA (m) to SMA (f), bulk head | -55~+85 |
| QASSH-FF-A | | | SMA (f) to SMA (f), bulk head | |
| QASSH-FF-B | DC~26.5 | 1.2 | SMA (f) to SMA (f), bulk head, brass | -55~+85 |
| QAGSH-FF | DC~18 | 1.3 | SSMP (f) to SMA (f), bulk head | -55~+125 |
| QAPSH-MF | DC~18 | 1.25 | SMP (m) to SMA (f), bulk head | -55~+85 |
| QAPSH-FF-1 | | | SMP (f) to SMA (f), bulk head | |
| QAPSH-FF-2 | | | SMP (f) to SMA (f), bulk head, seal ring | |
| QASNH-FF-1 | DC~18 | 1.15 | SMA (f) to N (f), bulk head, seal ring | -50~+85 |
| QASNH-FF-2 | | | SMA (f) to N (f), bulk head | |
| QANNH-FF | DC~18 | 1.15 | N (f) to N (f), bulk head | -55~+85 |
| QASBH-FF | DC~4 | 1.3 | SMA (f) to BNC (f), bulk head | -55~+85 |
| QASBH-FF-B | DC~3 | 1.25 | SMA (f) to BNC (f), bulk head, , Nickel plated brass | -55~+155 |

Coaxial Adapters, Flange Mount

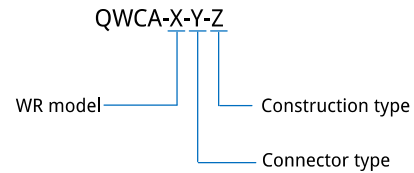

| Part Number | Freq. (GHz) | VSWR | Description | Temperature (°C) |
|-------------|-------------|------|---|------------------|
| QA11L-FF | DC~110 | 1.3 | 1.0mm (f) to 1.0mm (f), flange mount | -55~+85 |
| QAVVL-FF | DC~67 | 1.25 | 1.85mm (f) to 1.85mm (f), flange mount | -55~+125 |
| QA22L-FF | DC~50 | 1.25 | 2.4mm (f) to 2.4mm (f), flange mount | -60~+165 |
| QAKKL-FF | DC~40 | 1.25 | 2.92mm (f) to 2.92mm (f), flange mount | -60~+165 |
| QAKPL-FM | DC~40 | 1.25 | 2.92mm (f) to SMP (m), flange mount | -60~+165 |
| QA33L-FF | DC~33 | 1.15 | 3.5mm (f) to 3.5mm (f), flange mount | -55~+125 |
| QASSL-FF | DC~26.5 | 1.3 | SMA (f) to SMA (f), flange mount | -55~+85 |
| QASSL-FF-A | DC~26.5 | 1.2 | SMA (f) to SMA (f), flange mount | -55~+85 |
| QASSL-MF-B | DC~26.5 | 1.2 | SMA (m) to SMA (f), flange mount, brass | -55~+85 |
| QASSL-FF-B | | | SMA (f) to SMA (f), flange mount, brass | |
| QANNL-FF | DC~18 | 1.2 | N (f) to N (f), flange mount | -55~+85 |
| QASNL-FF | DC~18 | 1.15 | SMA (f) to N (f), flange mount | -50~+85 |
| QASNL-FF-B | DC~18 | 1.20 | SMA (f) to N (f), flange mount, Nickel plated brass | -50~+85 |
| QASTL-FF | DC~18 | 1.25 | SMA (f) to TNC (f), flange mount | -50~+85 |
| QASIL-FM | DC~18 | 1.25 | SMA (f) to BMA (m), flange mount | -55~+85 |
| QASIL-FM-02 | | | SMA (f) to BMA (m), 2-hole flange mount | |

Description

The signal transmission in the RF & microwave field need cable to transfer mostly. Coaxial cable and waveguide tube are widely used to transfer RF signal. These two transmission type have great differences in size, material and transmission characteristics. In order to interconnect the two transmission types, a waveguide to coax adapter is needed.

Features: Low VSWR;

Applications: Wireless, Transmitter, Radar, Laboratory Test etc.



Examples: Waveguide to coax adapter, WR-10 to 1.0mm female, end launch, specify QWCA-10-1F-E.

Naming Rules

Y: Connector type (Female Connector - Add 'F' after connector name);

1.0mm (1), 1.85mm (V), 2.4mm (2), 2.92mm (K), SMA (S), N (N)

Z: Construction Type: End launch (E), Right angle (R)

| Part Number | Freq. (GHz) | VSWR (max.) | IL (dB, max.) | RF Connectors | Interface | Flange | Construction Type |
|---------------|-------------|-------------|---------------|---------------|-----------|----------|-------------------|
| QWCA-10-Y-Z | 75~110 | 1.4 | 1.3 | 1.0mm | WR-10 | UG-387/U | E or R |
| QWCA-12-Y-Z | 60~90 | 1.35 | 1.1 | 1.0mm | WR-12 | UG-387/U | E or R |
| QWCA-15-Y-Z | 50~75 | 1.35 | 0.8 | 1.0mm | WR-15 | UG-385/U | E or R |
| QWCA-15-Y-Z | 49.8~67 | 2 | 1 | 1.85mm | WR-15 | FUGP620 | E or R |
| QWCA-19-Y-Z | 39.2~59.6 | 2 | 1 | 1.85mm | WR-19 | FUGP500 | E or R |
| QWCA-19-Y-Z | 40~50 | 1.35 | 0.45 | 2.4mm | WR-19 | UG-383/U | E or R |
| QWCA-22-Y-Z | 32.9~50.1 | 1.5 | 0.5 | 2.4mm | WR-22 | FAM400 | E or R |
| QWCA-28-Y-Z | 26.3~40 | 1.2 | - | 2.92mm | WR-28 | FBP320 | E or R |
| QWCA-D180-Y-Z | 18~40 | 1.5 | - | 2.92mm | WRD180 | FPWRD180 | E or R |
| QWCA-62-Y-Z | 12~18 | 1.2 | 0.2 | SMA, TNC | WR-62 | FBP140 | E or R |
| QWCA-90-Y-Z | 8.2~12.5 | 1.2 | - | N | WR-90 | FBP100 | E or R |
| QWCA-112-Y-Z | 6.57~9.99 | 1.2 | - | SMA, TNC | WR-112 | FBP84 | E or R |
| QWCA-159-Y-Z | 4.64~7.05 | 1.2 | - | N | WR-159 | FDP58 | E or R |
| QWCA-229-Y-Z | 3.22~4.9 | 1.2 | - | N, TNC | WR-229 | FDP40 | E or R |
| QWCA-430-Y-Z | 1.72~2.61 | 1.2 | - | N | WR-430 | FDP22 | E or R |
| QWCA-975-Y-Z | 0.76~1.15 | 1.2 | - | N | WR-975 | FDP9 | E or R |

Description

The end launch connector is a kind of connectors, especially used for PCB testing from DC-67GHz, including 3 types of connectors: 2.92mm, 2.4mm and 1.85mm. It is easy to install and disassemble and can be reused.

Features: Low VSWR, No Welding, Reusable, Easy Installation;

Applications: Laboratory Test.

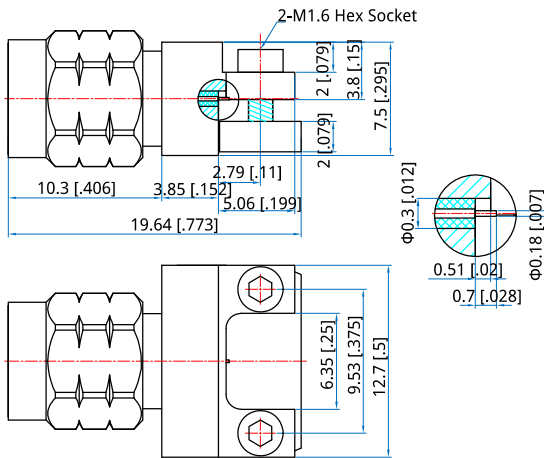


Specifications

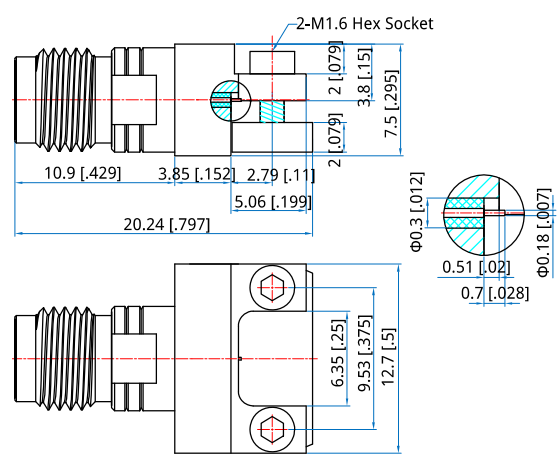
| Connector Type | Freq. (GHz) | VSWR (max.) | Outer Conductor | Dielectric | Inner Conductor | Temperature (°C) |
|----------------|-------------|-------------|----------------------------|------------|------------------------------|------------------|
| 1.85mm | DC~67 | 1.35 | Passivated Stainless Steel | PEI & PTFE | Gold Plated Beryllium Copper | -55~+165 |
| 2.4mm | DC~50 | 1.3 | Passivated Stainless Steel | PEI & PTFE | Gold Plated Beryllium Copper | -55~+165 |
| 2.92mm | DC~40 | 1.25 | Passivated Stainless Steel | PEI & PTFE | Gold Plated Beryllium Copper | -55~+165 |
| SMA | DC~26.5 | 1.25 | Passivated Stainless Steel | PEI & PTFE | Gold Plated Beryllium Copper | -55~+165 |

Outline Drawings

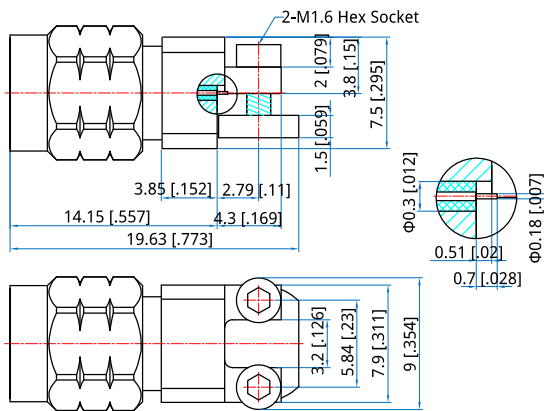
67GHz, 1.85mm



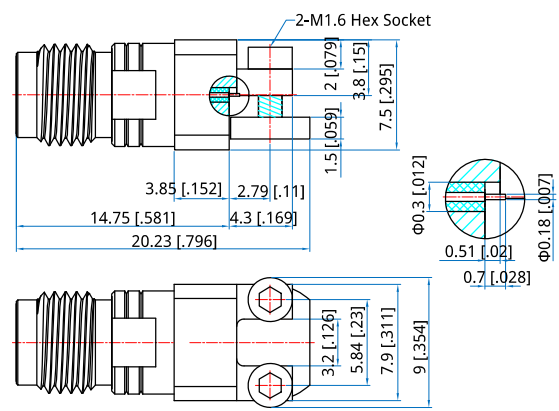
QELC-V-2



QELC-VF-2



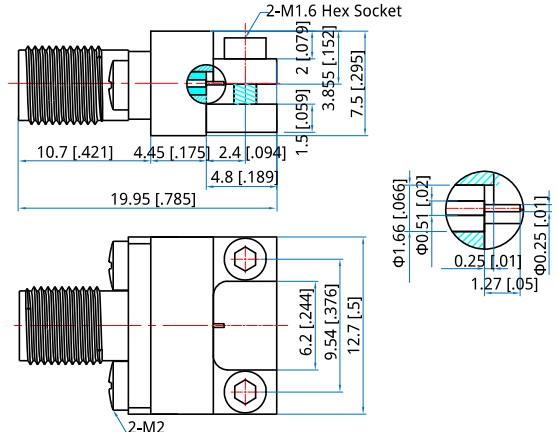
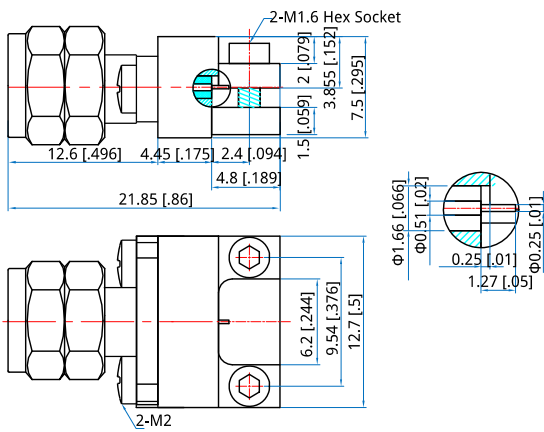
QELC-V-3



QELC-VF-3

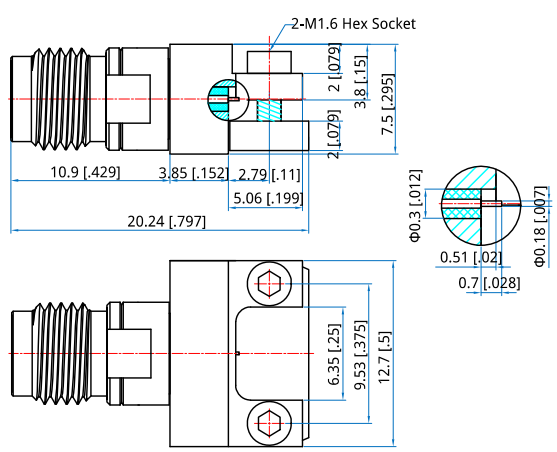
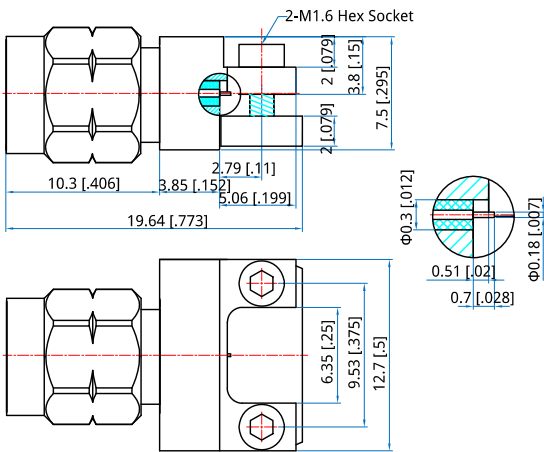
Unit: mm [in]
Tolerance: ±0.2mm [±0.008in]

50GHz, 2.4mm



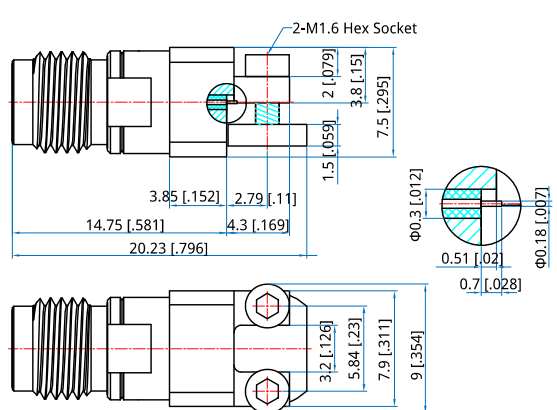
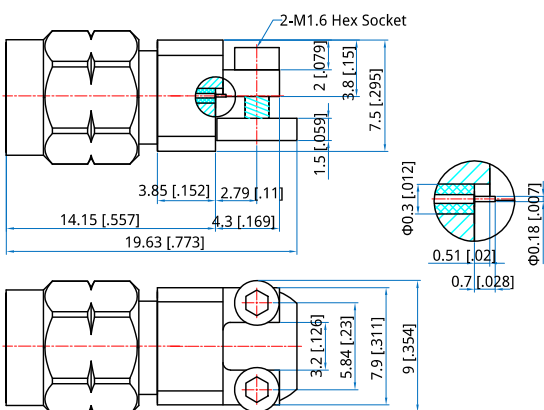
QELC-2-1

QELC-2F-1



QELC-2-2

QELC-2F-2

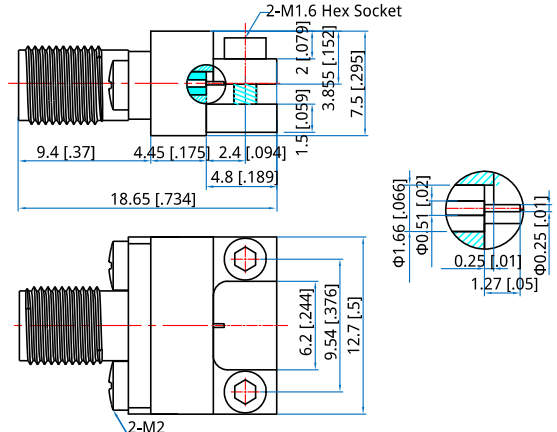
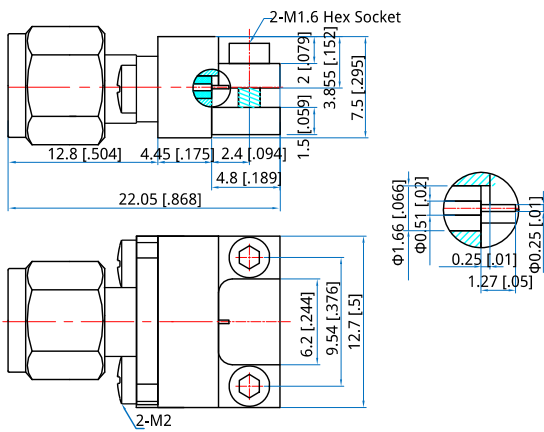


QELC-2-3

QELC-2F-3

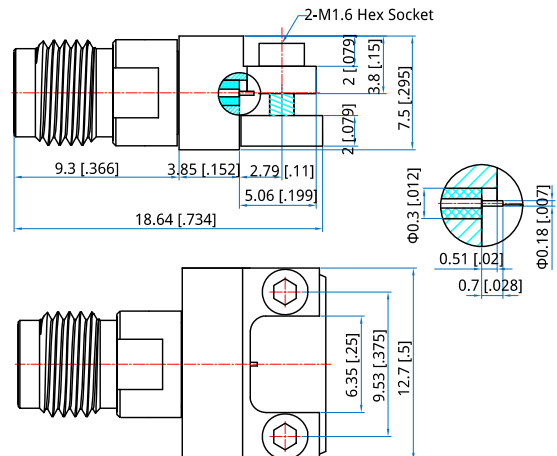
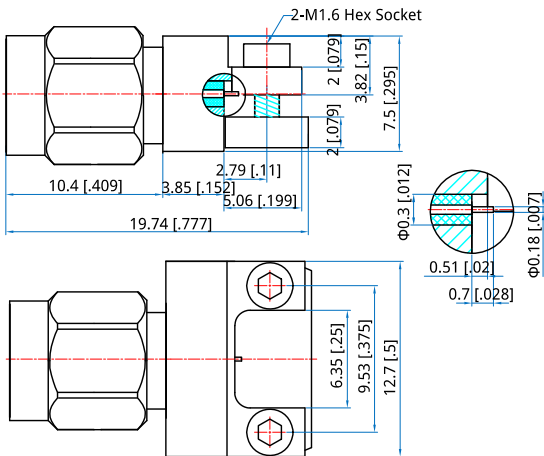
Unit: mm [in]
Tolerance: $\pm 0.2\text{mm} [\pm 0.008\text{in}]$

40GHz, 2.92mm



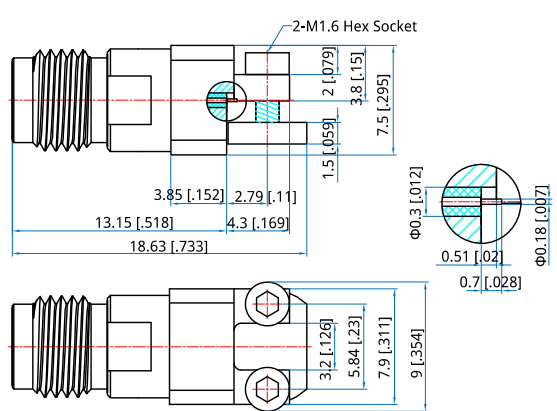
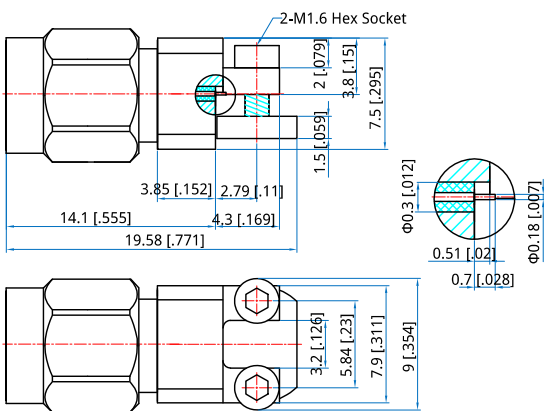
QELC-K-1

QELC-KF-1



QELC-K-2

QELC-KF-2

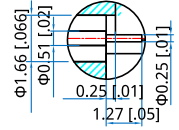
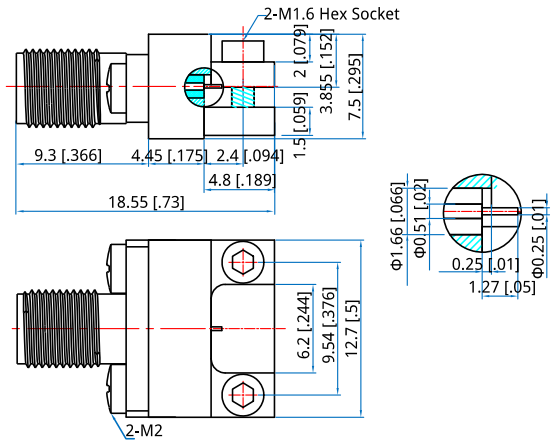
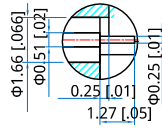
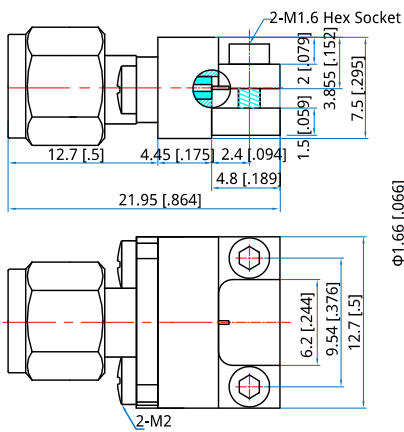


QELC-K-3

QELC-KF-3

Unit: mm [in]
Tolerance: ±0.2mm [±0.008in]

26.5GHz, SMA



QELC-S-1

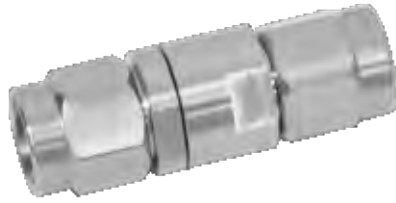
QELC-SF-1

Unit: mm [in]

Tolerance: ± 0.2 mm [± 0.008 in]

Description

DC Block is used to block the DC signal for RF circuits.



Features: Broadband, Low VSWR, High withstand voltage etc.

Applications: Telecom, Instrumentation, Radar, Laboratory Test etc.

Mechanical

Outer Conductors: Passivated SUS303 Stainless

Dielectric: PTFE or PEI

Inner Conductors: Gold Plated Beryllium Copper

| Part Number | Freq. (GHz) | Insertion Loss (dB, max.) | VSWR (max.) | Voltage (V, max.) | Connector | Size (mm) |
|-------------------|----------------|------------------------------|----------------|----------------------|-------------------------|--------------|
| QDB-10-67000-VVF | 0.01~67 | 0.4 | 1.65 | 25 | 1.85mm (m) - 1.85mm (f) | 18.3 |
| QDB-10-50000-22F | | | | | 2.4mm (m) - 2.4mm (f) | Φ9*26.8 |
| QDB-10-50000-22 | 0.01~50 | 0.8 | 1.3 | 50 | 2.4mm (m) - 2.4mm (m) | Φ9*25.6 |
| QDB-10-50000-2F2F | | | | | 2.4mm (f) - 2.4mm (f) | Φ9*28 |
| QDB-10-40000-KKF | | | | | 2.92mm (m) - 2.92mm (f) | Φ9*25 |
| QDB-10-40000-KK | 0.01~40 | 0.8 | 1.3 | 50 | 2.92mm (m) - 2.92mm (m) | Φ9*26 |
| QDB-10-40000-KFKF | | | | | 2.92mm (f) - 2.92mm (f) | Φ9*24 |
| QDB-10-26500-SSF | | | | | SMA (m) - SMA (f) | Φ9*30 |
| QDB-10-26500-SS | | | | | SMA (m) - SMA (m) | Φ9*31.1 |
| QDB-10-26500-SFSF | 0.01~26.5 | 0.8 | 1.3 | 50 | SMA (f) - SMA (f) | Φ9*28.8 |
| QDB-10-26500-33F | | | | | 3.5mm (m) - 3.5mm (f) | Φ9*33.8 |
| QDB-10-26500-33 | | | | | 3.5mm (m) - 3.5mm (m) | Φ9*34.9 |
| QDB-10-26500-3F3F | | | | | 3.5mm (f) - 3.5mm (f) | Φ9*32.7 |
| QDB-10-18000-NNF | | | | | N (m) - N (f) | L: 42.6 |
| QDB-10-18000-NN | 0.01~18 | 0.6 | 1.25 | 50 | N (m) - N (m) | L: 43.4 |
| QDB-10-18000-NFNF | | | | | N (f) - N (f) | L: 41.8 |

Description

Detector is a device to detect useful signal and identify the existence or variation of wave, oscillator or signal. The main technical specifications include frequency range, sensitivity and linearity. The RF signal frequency may be the first parameter to be considered when selecting a detector. The detector must be fast enough to extract the amplitude of the signal. It must also be able to provide a constant response over a considerable frequency range. Sensitivity is the ability of the detector to return useful information when a very low input signal is added to the input. Therefore, the definition of sensitivity is closely related to the ADC / DAC resolution used for signal processing.

Features: Broadband, High Sensitivity.

Applications: Telecom, Instrumentation, Radar and Laboratory Test.



*Operating Temperature: 0~+50°C

*Non-operating Temperature: -20~+70°C

*Impedance: 50Ω

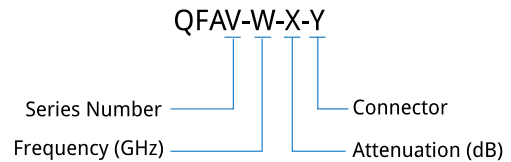
| Part Number | Freq. (GHz) | Sensitivity (mV/mW) | Flatness (dB, max.) | VSWR (max.) | Polarity | Input Power (dBm, max.) | Input Connector | Output Connector | Size (mm) |
|-----------------|-------------|---------------------|---------------------|-------------|----------|-------------------------|-----------------|------------------|--------------|
| QD-10-4000-P-S | 0.01~4 | 500 | ±0.3 | 1.2 | Positive | 20 | SMA (m) | SMA (f) | Φ9.2*36 |
| QD-10-4000-N-S | | | | | Negative | | | | |
| QD-10-8000-P-S | 0.01~8 | 500 | ±0.3 | 1.4 | Positive | 20 | SMA (m) | SMA (f) | Φ9.2*36 |
| QD-10-8000-N-S | | | | | Negative | | | | |
| QD-10-12000-P-S | 0.01~12 | 500 | ±0.5 | 1.5 | Positive | 20 | SMA (m) | SMA (f) | Φ9.2*36 |
| QD-10-12000-N-S | | | | | Negative | | | | |
| QD-10-18000-P-S | 0.01~18 | 500 | ±0.6 | 1.8 | Positive | 20 | SMA (m) | SMA (f) | Φ9.2*36 |
| QD-10-18000-N-S | | | | | Negative | | | | |
| QD-10-26500-P-S | 0.01~26.5 | 180 | ±1.5 | 2.2 | Positive | 20 | SMA (m) | SMA (f) | Φ9.2*36 |
| QD-10-26500-N-S | | | | | Negative | | | | |
| QD-10-40000-P-K | 0.01~40 | 150 | ±3.5 | 2.2 | Positive | 20 | 2.92mm (f) | 2.92mm (f) | 29.8*9.8*9.8 |
| QD-10-40000-N-K | | | | | Negative | | | | |

Description

The function of fixed attenuator is to attenuate the power signal to a certain proportion to achieve safe or ideal power value, which is convenient for testing.

Features: High Precision, High Power, Broadband.

Applications: Wireless, Transmitter, Radar, Laboratory Test.



2W, BNC

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|---------------|-------------|------------------------|---|------|-------|-------|----------------|-----------|
| | (GHz) | | 1~7 | 7~20 | 21~30 | 40~60 | | |
| QFA1802-4-X-3 | DC-4 | 2 | 0.3 | 0.5 | 0.75 | 0.8 | 1.25 | BNC |
| QFA1802-6-X-3 | DC-6 | 2 | 0.3 | 0.5 | 0.75 | 0.8 | 1.25 | BNC |

* Above "X" represents attenuation (dB)

* Size: Φ14.5*L mm (Attenuation=1 ~ 30dB, L=35; 40 ~ 60dB, L=38)

* Temperature: -55~+125°C



2W, N

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-----|-----|-----|-----|-----|----------------|-----------|
| | (GHz) | | 1~10 | 20 | 30 | 40 | 50 | 60 | | |
| QFA1802-4-X-N | DC-4 | 2 | 0.4 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | 1.20 | N |
| QFA1802-6-X-N | DC-6 | 2 | 0.5 | 0.6 | 0.8 | 0.8 | 0.8 | 0.9 | 1.20 | N |
| QFA1802-12.4-X-N | DC-12.4 | 2 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.30 | N |
| QFA1802-18-X-N | DC-18 | 2 | 0.7 | 0.8 | 1.0 | 1.2 | - | - | 1.35 | N |

* Above "X" represents attenuation (dB)

* Size: Φ16.5*L mm (Attenuation=1 ~ 10dB, 20dB, 30dB, L=45; 40dB, 50dB, 60dB, L=48)

* Temperature: -55~+125°C



2W, SMA & TNC

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-------|-------|-----|-----|-----|----------------|-----------|
| | (GHz) | | 1~10 | 11~20 | 21~30 | 40 | 50 | 60 | | |
| QFA1802-4-X-S | DC-4 | 2 | 0.4 | 0.5 | 0.7 | 0.7 | 0.7 | 0.8 | 1.20 | SMA |
| QFA1802-4-X-T | | | | | | | | | | TNC |
| QFA1802-8-X-S | DC-8 | 2 | 0.5 | 0.6 | 0.8 | 0.8 | 0.8 | 0.9 | 1.25 | SMA |
| QFA1802-8-X-T | | | | | | | | | | TNC |
| QFA1802-12.4-X-S | DC-12.4 | 2 | 0.6 | 0.7 | 0.9 | 0.9 | 1.0 | 1.1 | 1.25 | SMA |
| QFA1802-12.4-X-T | | | | | | | | | | TNC |
| QFA1802-18-X-S | DC-18 | 2 | 0.6 | 0.8 | 1.0 | 1.2 | 1.5 | 1.5 | 1.30 | SMA |
| QFA1802-18-X-T | | | | | | | | | | TNC |

* Above "X" represents attenuation (dB)

* Size: SMA: Φ9*L mm (Attenuation=1 ~ 10dB, 20dB, 30dB, L=27; 40dB, 50dB, 60dB, L=30); TNC: Φ15*35 mm

* Temperature: -55~+125°C



2W, SMA

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|------|------------|--------|----------------|-----------|
| | (GHz) | | 1~30 | 40 | 50, 60, 70 | 80, 90 | | |
| QFA2602-26.5-X-S | DC-26.5 | 2 | ±1 | ±1.5 | ±2 | - | 1.35 | SMA |

* Above "X" represents attenuation (dB)

* Size: Φ9*Lmm (Attenuation=1~20dB, L=27; Attenuation=30dB, L=30); Φ10*43mm (Attenuation=40~90dB)

* Temperature: -55~+85°C



2W, 3.5mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|---------|------|-------|----------------|-----------|
| | (GHz) | | 1~30 | 40 | 50 | 60~70 | | |
| QFA2602-26.5-X-3 | DC-26.5 | 2 | -0.3/+1 | -1/+1.5 | ±1.5 | ±1 | 1.25 | 3.5mm |



* Above "X" represents attenuation (dB)
 * Size: Φ10*L mm (Attenuation=1 ~ 30dB, L=37; 40dB, L=40.3; 50 ~ 70dB, L=46)
 * Temperature: -55~+85°C

2W, 2.92mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|----------------|-------------|------------------------|---|------|-------|----|----------------|-----------|
| | (GHz) | | 0~3 | 4~15 | 20/25 | 30 | | |
| QFA4002-40-X-K | DC-40 | 2 | ±0.6 | ±0.7 | ±0.8 | ±1 | 1.25 | 2.92mm |



* Above "X" represents attenuation (dB)
 * Size: Φ9*17.2 mm
 * Temperature: -55~+125°C

2W, 2.4mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|----------------|-------------|------------------------|---|-----------|-----------|-------|----------------|-----------|
| | (GHz) | | 1~10 | 20 | 30 | 40~50 | | |
| QFA5002-50-X-2 | DC-50 | 2 | ±1.0 | -1.0/+1.2 | -1.0/+1.2 | ±1.5 | 1.45 | 2.4mm |



* Above "X" represents attenuation (dB)
 * Size: Φ9*19.7mm (Attenuation=1~30dB, 2.4mm male & female) ; Φ8*42.6mm (Attenuation=40~50dB, 2.4mm male & female) ; Φ7.6*30.8mm (Attenuation=5dB, 2.4mm female)
 * Temperature: -55~+125°C

2W, 1.85mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | VSWR (max.) | Connector |
|----------------|-------------|------------------------|---|------|------|----------------|-----------|
| | (GHz) | | 1~10 | 20 | 30 | | |
| QFA6702-67-X-V | DC-67 | 2 | -1.0/+1.2 | ±1.2 | ±1.5 | 1.35 | 1.85mm |



* Above "X" represents attenuation (dB)
 * Size: Φ9*18.5mm
 * Temperature: -55~+125°C

5W, N

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-------|-------|-------|----------------|-----------|
| | (GHz) | | 1~10 | 11~20 | 21~30 | 31~40 | | |
| QFA1805-4-X-N | DC-4 | 5 | 0.4 | 0.5 | 0.6 | 0.7 | 1.20 | N |
| QFA1805-6-X-N | DC-6 | 5 | 0.5 | 0.6 | 0.8 | 0.8 | 1.25 | N |
| QFA1805-12.4-X-N | DC-12.4 | 5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.35 | N |
| QFA1805-18-X-N | DC-18 | 5 | 0.6 | 0.8 | 1.0 | 1.2 | 1.45 | N |



* Above "X" represents attenuation (dB)
 * Size: Φ16.5*58 mm
 * Temperature: -55~+125°C

5W, SMA

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-------|-------|----------------|-----------|
| | (GHz) | | 1~10 | 11~20 | 21~30 | | |
| QFA1805-4-X-S | DC-4 | 5 | 0.4 | 0.5 | 0.7 | 1.20 | SMA |
| QFA1805-8-X-S | DC-8 | 5 | 0.5 | 0.6 | 0.8 | 1.25 | SMA |
| QFA1805-12.4-X-S | DC-12.4 | 5 | 0.6 | 0.7 | 0.9 | 1.35 | SMA |
| QFA1805-18-X-S | DC-18 | 5 | 0.6 | 0.8 | 1.0 | 1.45 | SMA |

* Above "X" represents attenuation (dB)

* Size: Φ19*27 mm

* Temperature: -55→+125°C



5W, SMA

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|------|------|-----------|-----------|----------------|-----------|
| | (GHz) | | 1~10 | 20 | 30 | 40 | 50 | | |
| QFA2605-26.5-X-S | DC-26.5 | 5 | ±0.7 | ±0.7 | ±0.8 | -0.5/+1.5 | -0.5/+1.5 | 1.35 | SMA |

* Above "X" represents attenuation (dB)

* Size: Φ19*Lmm (Attenuation=1~20dB, L=27; Attenuation=30dB, L=30); Φ16.5*37mm (Attenuation=40~50dB)

* Temperature: -55→+85°C



5W, 3.5mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | VSWR (max.) | Connector | |
|------------------|-------------|------------------------|---|-----------|-----------|---------|---------|----------------|-----------|-------|
| | (GHz) | | 1~10 | 11~30 | 40 | 50~60 | 70 | | | 80 |
| QFA2605-26.5-X-3 | DC-26.5 | 5 | ±1 | -0.5/+1.2 | -0.5/+1.2 | -1/+1.5 | -1/+1.5 | -1.2/+1.5 | 1.25 | 3.5mm |

* Above "X" represents attenuation (dB)

* Size: Φ15.7*37mm (Attenuation=1~30dB); Φ16.5*40.3mm (Attenuation=40dB); Φ16.5*46mm (Attenuation=50~80dB)

* Temperature: -55→+85°C



5W, 2.92mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | VSWR (max.) | Connector |
|----------------|-------------|------------------------|---|-----------|-----------|-----------------|-----------|
| | (GHz) | | 1~10 | 20, 30 | 40 | | |
| QFA4005-40-X-K | DC-40 | 5 | -0.7/+1.0 | -0.7/+1.0 | -1.0/+2.0 | 1.25, 1.40@40dB | 2.92mm |

* Above "X" represents attenuation (dB)

* Size: Φ15.8*39.6mm (Attenuation=1~30dB), Φ38*47.6mm (Attenuation=40dB)

* Temperature: -55→+85°C



5W, 2.4mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | VSWR (max.) | Connector |
|----------------|-------------|------------------------|---|-----------|-----------|----------------|-----------|
| | (GHz) | | 1 ~ 10 | 20 | 30 | | |
| QFA5005-50-X-2 | DC-50 | 5 | -1.0/+1.2 | -1.0/+1.2 | -1.0/+1.2 | 1.3 | 2.4mm |

* Above "X" represents attenuation (dB)

* Size (Exclude Connector): Φ31.8*17.8mm

* Temperature: -55→+125°C



5W, 1.85mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | VSWR (max.) | Connector |
|----------------|-------------|------------------------|---|-----------|-----------|----------------|-----------|
| | (GHz) | | 1 ~ 10 | 20 | 30 | | |
| QFA6705-67-X-V | DC-67 | 5 | -1.0/+1.5 | -1.2/+1.5 | -1.5/+2.0 | 1.4 | 1.85mm |

* Above "X" represents attenuation (dB)

* Size (Exclude Connector): Φ31.8*17.8mm

* Temperature: -55→+125°C



10W, N & SMA

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-------|-------|-------|----------------|-----------|
| | (GHz) | | 1~10 | 11~20 | 21~30 | 31~40 | | |
| QFA1810-4-X-N | DC-4 | 10 | 0.4 | 0.5 | 0.6 | 0.7 | 1.20 | N |
| QFA1810-4-X-S | | | | | | | | SMA |
| QFA1810-8-X-N | DC-8 | 10 | 0.5 | 0.6 | 0.8 | 0.8 | 1.25 | N |
| QFA1810-8-X-S | | | | | | | | SMA |
| QFA1810-12.4-X-N | DC-12.4 | 10 | 0.6 | 0.7 | 0.8 | 0.9 | 1.35 | N |
| QFA1810-12.4-X-S | | | | | | | | SMA |
| QFA1810-18-X-N | DC-18 | 10 | 0.8 | 0.9 | 1.0 | 1.2 | 1.45 | N |
| QFA1810-18-X-S | | | | | | | | SMA |



* Above "X" represents attenuation (dB)
 * Size: N: $\Phi 30 \times 84.5\text{mm}$; SMA: $\Phi 15.8 \times 47.5\text{mm}$
 * Temperature: $-55 \rightarrow +125^\circ\text{C}$

10W, SMA

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-----------|-----------|--------|----------------|-----------|
| | (GHz) | | 3, 6 | 10 | 20 | 30, 40 | | |
| QFA2610-26.5-X-S | DC-26.5 | 10 | -0.5/+1.0 | -0.5/+1.5 | -0.5/+1.2 | ±1.2 | 1.35 | SMA |



* Above "X" represents attenuation (dB)
 * Size: $\Phi 16.5 \times 46.5\text{mm}$
 * Temperature: $-55 \rightarrow +85^\circ\text{C}$

10W, 3.5mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|----------|----------|---------|---------|----------|----------------|-----------|
| | (GHz) | | 1~10 | 20, 30 | 40 | 50 | 60 | 70 | | |
| QFA2610-26.5-X-3 | DC-26.5 | 10 | ±1 | -0.5/+1. | -0.5/+1. | -1/+1.5 | -1/+1.5 | -1.2/+1. | 1.25 | 3.5mm |



* Above "X" represents attenuation (dB)
 * Size: $\Phi 26 \times 45.8\text{mm}$
 * Temperature: $-55 \rightarrow +85^\circ\text{C}$

10W, 2.92mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|----------------|-------------|------------------------|---|-----------|-----------|-----------|----------------|-----------|
| | (GHz) | | 10 | 20 | 30 | 40 | | |
| QFA4010-40-X-K | DC-40 | 10 | -0.7/+1.0 | -0.7/+1.0 | -0.7/+1.0 | -1.0/+2.0 | 1.25, 1.4@40dB | 2.92mm |



* Above "X" represents attenuation (dB)
 * Size: $\Phi 31.8 \times 39.6\text{mm}$ (Attenuation=1~30dB); $\Phi 38 \times 47.6\text{mm}$ (Attenuation=40dB)
 * Temperature: $-55 \rightarrow +85^\circ\text{C}$

20W, N & SMA

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|---------|------------------------|---|-------|-------|-------|------------------|-----------|
| | (GHz) | | 1~10 | 11~20 | 21~30 | 31~40 | | |
| QFA1820-4-X-N | DC-4 | 20 | 0.4 | 0.5 | 0.6 | 0.7 | 1.20 | N |
| QFA1820-4-X-S | | | | | | | | SMA |
| QFA1820-8-X-N | DC-8 | 20 | 0.5 | 0.6 | 0.8 | 0.8 | 1.25 | N |
| QFA1820-8-X-S | | | | | | | | SMA |
| QFA1820-12.4-X-N | DC-12.4 | 20 | 0.6 | 0.7 | 0.8 | 0.9 | 1.35 | N |
| QFA1820-12.4-X-S | | | | | | | | SMA |
| QFA1820-18-X-N | DC-18 | 20 | 0.6 | 0.8 | 1.0 | 1.2 | 1.45 | N |
| QFA1820-18-X-S | | | | | | | | SMA |



* Above "X" represents attenuation (dB)

* Size: N: Φ38*84.5 mm; SMA: Φ30*89.5 mm

* Temperature: -55--+125°C

20W, SMA

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | VSWR (max.) | Connector |
|------------------|---------|------------------------|---|-----------|-----------|------------------|-----------|
| | (GHz) | | 10 | 20 | 30 | | |
| QFA2620-26.5-X-S | DC-26.5 | 20 | -1.5/+1.5 | -1.5/+1.5 | -1.5/+1.5 | 1.3 | SMA |

* Above "X" represents attenuation (dB)

* Size: Φ44*54.7mm

* Temperature: -55--+125°C

20W, 2.92mm

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | VSWR (max.) | Connector |
|----------------|-------|------------------------|---|-----------|-----------|-----------|-----------|------------------|-----------|
| | (GHz) | | 3~10 | 15 | 20 | 30 | 40 | | |
| QFA4020-40-X-K | DC-40 | 20 | -1.5/+1.5 | -1.5/+1.5 | -1.5/+1.5 | -1.5/+1.5 | -1.0/+2.0 | 1.3, 1.4@40dB | 2.92mm |

* Above "X" represents attenuation (dB)

* Size: Φ44*55.6mm (Attenuation=3~30dB); Φ45*96mm (Attenuation=40dB)

* Temperature: -55--+85°C

25W, N & SMA

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|---------|------------------------|---|-------|-------|---------|------------------|-----------|
| | (GHz) | | 1~10 | 11~20 | 21~30 | 40~50 | | |
| QFA1825-4-X-N | DC-4 | 25 | 0.4 | 0.5 | 0.6 | 0.7 | 1.20 | N |
| QFA1825-4-X-S | | | | | | | | SMA |
| QFA1825-8-X-N | DC-8 | 25 | 0.5 | 0.6 | 0.8 | 0.8 | 1.25 | N |
| QFA1825-8-X-S | | | | | | | | SMA |
| QFA1825-12.4-X-N | DC-12.4 | 25 | 0.7 | 0.8 | 0.9 | 1.0~1.1 | 1.35 | N |
| QFA1825-12.4-X-S | | | | | | | | SMA |
| QFA1825-18-X-N | DC-18 | 25 | 0.8 | 0.9 | 1.1 | 1.2~1.3 | 1.45 | N |
| QFA1825-18-X-S | | | | | | | | SMA |



* Above "X" represents attenuation (dB)

* Size: N: Φ44*89 mm; SMA: Φ44*94 mm

* Temperature: -55--+125°C

30W, N & SMA

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|---------|------------------------|---|-------|-------|-------|------------------|-----------|
| | (GHz) | | 1~10 | 11~20 | 21~30 | 31~40 | | |
| QFA1830-4-X-N | DC-4 | 30 | 0.4 | 0.5 | 0.6 | 0.7 | 1.20 | N |
| QFA1830-4-X-S | | | | | | | | SMA |
| QFA1830-6-X-N | DC-6 | 30 | 0.5 | 0.6 | 0.8 | 0.8 | 1.25 | N |
| QFA1830-6-X-S | | | | | | | | SMA |
| QFA1830-12.4-X-N | DC-12.4 | 30 | 0.6 | 0.7 | 0.8 | 0.9 | 1.35 | N |
| QFA1830-12.4-X-S | | | | | | | | SMA |
| QFA1830-18-X-N | DC-18 | 30 | 0.8 | 0.9 | 1.2 | 1.5 | 1.45 | N |
| QFA1830-18-X-S | | | | | | | | SMA |



* Above "X" represents attenuation (dB)

* Size: N: Φ38*105 mm; SMA: Φ38*110 mm

* Temperature: -55→+125°C

30W, SMA

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | VSWR (max.) | Connector |
|------------------|---------|------------------------|---|-----------|-----------|------------------|-----------|
| | (GHz) | | 20 | 30 | 40 | | |
| QFA2630-26.5-X-S | DC-26.5 | 30 | -1.5/+1.5 | -1.5/+1.5 | -1.5/+1.5 | 1.3 | SMA |

* Above "X" represents attenuation (dB)

* Size: Φ54*62.7mm

* Temperature: -55→+125°C

30W, 2.92mm

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | VSWR (max.) | Connector |
|----------------|-------|------------------------|---|-----------|-----------|------------------|-----------|
| | (GHz) | | 20 | 30 | 40 | | |
| QFA4030-40-X-K | DC-40 | 30 | -1.5/+2.0 | -1.5/+2.0 | -1.5/+2.0 | 1.35 | 2.92mm |

* Above "X" represents attenuation (dB)

* Size: Φ54*63.6mm

* Temperature: -55→+125°C

50W, N & SMA

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|---------|------------------------|---|-------|-------|-------|------------------|-----------|
| | (GHz) | | 1~10 | 11~20 | 21~30 | 31~50 | | |
| QFA1850-4-X-N | DC-4 | 50 | 0.4 | 0.5 | 0.7 | 0.7 | 1.20 | N |
| QFA1850-4-X-S | | | | | | | | SMA |
| QFA1850-8-X-N | DC-8 | 50 | 0.5 | 0.6 | 0.8 | 0.8 | 1.25 | N |
| QFA1850-8-X-S | | | | | | | | SMA |
| QFA1850-12.4-X-N | DC-12.4 | 50 | 0.6 | 0.7 | 0.8 | 1.1 | 1.35 | N |
| QFA1850-12.4-X-S | | | | | | | | SMA |
| QFA1850-18-X-N | DC-18 | 50 | 0.8 | 0.9 | 1.1 | 1.3 | 1.45 | N |
| QFA1850-18-X-S | | | | | | | | SMA |



* Above "X" represents attenuation (dB)

* Size: N: Φ64*105 mm; SMA: Φ64*110.5 mm

* Temperature: -55→+125°C

50W, SMA

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | VSWR | Connector |
|------------------|---------|------------------------|---|----|----|----|----|----------|-----------|
| | (GHz) | | 20 | 30 | 40 | 50 | 60 | (max.) | |
| QFA2650-26.5-X-S | DC-26.5 | 50 | ±2 | ±2 | ±2 | ±1 | ±1 | 1.30 | SMA |

* Above "X" represents attenuation (dB)

* Size: Φ54*109.7mm (Attenuation=20~40dB); Φ63*71mm (Attenuation=50~60dB)

* Temperature: -55~+85°C



50W, 3.5mm

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | | VSWR | Connector | |
|------------------|---------|------------------------|---|---------|---------|-------|---------|----------|----------|-----------|----------|
| | (GHz) | | 3 | 6 | 10 | 20~30 | 40 | 50 | 60 | | (max.) |
| QFA2650-12.4-X-3 | DC-12.4 | 50 | -0.8/+0. | ±1 | ±1 | ±0.9 | -1/+0.5 | -1/+0.75 | -1/+0.5 | 1.2 | 3.5mm |
| QFA2650-18-X-3 | DC-18 | 50 | ±0.8 | ±1 | ±1 | ±1 | ±1 | ±1 | -1/+0.75 | 1.25 | 3.5mm |
| QFA2650-26.5-X-3 | DC-26.5 | 50 | -0.8/+1. | -1/+1.7 | -1/+2.5 | ±1 | ±1 | ±1 | ±1 | 1.30 | 3.5mm |

* Above "X" represents attenuation (dB)

* Size: Φ63*74mm

* Temperature: -55~+85°C



50W, 2.92mm

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. | | | VSWR | Connector |
|----------------|-------------|------------------------|--------------------------------|------|------|----------|-----------|
| | (GHz) | | 20 | 30 | 40 | (max.) | |
| QFA4050-40-X-K | DC-40 | 50 | ±3.0 | ±3.0 | ±3.0 | 1.35 | 2.92mm |

* Above "X" represents attenuation (dB)

* Size: Φ54*109.8mm

* Temperature: -55~+125°C



100W, N & SMA & 7/16(DIN)

| Part Number | Freq. | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | | VSWR | Connector |
|------------------|---------|------------------------|---|------|-------|-------|-------|---------|----------|-----------|
| | (GHz) | | 3 | 6~10 | 11~20 | 21~30 | 31~40 | 41~60 | (max.) | |
| QFA18K1-4-X-N | | | | | | | | | | N |
| QFA18K1-4-X-S | DC-4 | 100 | 0.4 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9-1.0 | 1.20 | SMA |
| QFA18K1-4-X-7 | | | | | | | | | | 7/16(DIN) |
| QFA18K1-8-X-N | | | | | | | | | | N |
| QFA18K1-8-X-S | DC-8 | 100 | 0.5 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 | 1.25 | SMA |
| QFA18K1-8-X-7 | | | | | | | | | | 7/16(DIN) |
| QFA18K1-12.4-X-N | | | | | | | | | | N |
| QFA18K1-12.4-X-S | DC-12.4 | 100 | 0.6 | 0.9 | 0.9 | 1.0 | 1.0 | 1.1 | 1.35 | SMA |
| QFA18K1-12.4-X-7 | | | | | | | | | | 7/16(DIN) |
| QFA18K1-18-X-N | | | | | | | | | | N |
| QFA18K1-18-X-S | DC-18 | 100 | 0.8 | 1.5 | 1.5 | 1.3 | 1.3 | 1.4 | 1.45 | SMA |
| QFA18K1-18-X-7 | | | | | | | | | | 7/16(DIN) |

* Above "X" represents attenuation (dB)

* You could choose the shape for attenuator when the connector is SMA or N, If you choose cylinder, please add " 1" " at the end of Part Number; Cuboid, please add " 2" "

* Size: N: Φ64*L (Attenuation=3dB, L=105; Attenuation=6~60dB, L=156) or 156*120*110 mm; SMA: Φ64*161 or 161*120*110 mm; 7/16(DIN): Φ41*179±2 mm

* Temperature: -55~+125°C



100W, 3.5mm & SMA

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-----------|-----------|-----------|-----------|------------------|-----------|
| | (GHz) | | 3 | 6 | 10 | 20 | 30-50 | | |
| QFA26K1-26.5-X-3 | DC-26.5 | 100 | -1.0/+1.5 | -1.0/+2.5 | -1.0/+3.5 | -1.0/+3.0 | -1.0/+1.5 | 1.40 | 3.5mm |
| QFA26K1-26.5-X-5 | DC-26.5 | 100 | -1.0/+1.5 | -1.0/+2.5 | -1.0/+3.5 | -1.0/+3.0 | -1.0/+1.5 | 1.40 | SMA |

* Above "X" represents attenuation (dB)

* Size: Φ63*129 mm

* Temperature: -55→+85°C



150W, N & SMA

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | VSWR (max.) | Connector | |
|-------------------|-------------|------------------------|---|------|-----|-----|-----|------------------|-----------|-------|
| | (GHz) | | 3 | 6-10 | 20 | 30 | 40 | | | 50-60 |
| QFA18K15-4-X-N | DC-4 | 150 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 | 0.9 | 1.20 | N |
| QFA18K15-4-X-S | | | | | | | | | | SMA |
| QFA18K15-8-X-N | DC-8 | 150 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 1.25 | N |
| QFA18K15-8-X-S | | | | | | | | | | SMA |
| QFA18K15-12.4-X-N | DC-12.4 | 150 | - | 0.9 | 0.9 | 1.0 | 1.1 | 1.1 | 1.35 | N |
| QFA18K15-12.4-X-S | | | | | | | | | | SMA |
| QFA18K15-18-X-N | DC-18 | 150 | - | 2.0 | 1.5 | 1.5 | 1.3 | 1.4 | 1.45 | N |
| QFA18K15-18-X-S | | | | | | | | | | SMA |

* Above "X" represents attenuation (dB)

* You could choose the shape for attenuator when the connector is SMA or N, If you choose cylinder, please add " 1" at the end of Part Number; Cuboid, please add " 2"

* Size (Exclude Connector): 3dB: Φ64*121 or 101*120*110mm; 6-60dB: Φ64*195 or 152*120*110mm

* Temperature: -55→+125°C



200W, N

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-----|-----|------------|------------------|-----------|
| | (GHz) | | 10 | 20 | 30 | 40, 50, 60 | | |
| QFA18K2-4-X-N | DC-4 | 200 | 0.7 | 0.7 | 0.8 | 0.9 | 1.20 | N |
| QFA18K2-8-X-N | DC-8 | 200 | 0.8 | 0.8 | 0.9 | 0.9 | 1.25 | N |
| QFA18K2-12.4-X-N | DC-12.4 | 200 | 0.9 | 0.9 | 1.0 | 1.1 | 1.35 | N |
| QFA18K2-18-X-N | DC-18 | 200 | 2.0 | - | 1.5 | 1.4 | 1.45 | N |

* Above "X" represents attenuation (dB)

* Size (Exclude Connector): 203*120*110 mm

* Temperature: -55→+125°C



250W, N

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | VSWR (max.) | Connector |
|-------------------|-------------|------------------------|---|-----|-----|-----|-------|------------------|-----------|
| | (GHz) | | 10 | 20 | 30 | 40 | 50-60 | | |
| QFA18K25-4-X-N | DC-4 | 250 | 0.7 | 0.7 | 0.8 | 0.9 | 0.9 | 1.20 | N |
| QFA18K25-8-X-N | DC-8 | 250 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 1.25 | N |
| QFA18K25-12.4-X-N | DC-12.4 | 250 | 2.5 | 0.9 | 1.0 | 1.1 | 1.1 | 1.35 | N |
| QFA18K25-18-X-N | DC-18 | 250 | 3 | - | 1.5 | 1.4 | 1.4 | 1.45 | N |

* Above "X" represents attenuation (dB)

* Size (Exclude Connector): 254*120*110 mm

* Temperature: -55→+125°C



300W, N

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-----|-----|-----|-----|-----|-----|-----|------------------|-----------|
| | (GHz) | | 3 | 6 | 10 | 20 | 30 | 40 | 50 | 60 | | |
| QFA18K3-3-X-N | DC-3 | 300 | 0.5 | - | - | - | - | - | - | - | 1.20 | N |
| QFA18K3-4-X-N | DC-4 | 300 | - | - | 0.7 | 0.7 | 0.8 | 0.9 | 0.9 | 0.9 | 1.20 | N |
| QFA18K3-6-X-N | DC-6 | 300 | 1 | 1.2 | - | - | - | - | - | - | 1.25 | N |
| QFA18K3-8-X-N | DC-8 | 300 | - | - | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 1.25 | N |
| QFA18K3-12.4-X-N | DC-12.4 | 300 | - | - | 3.0 | 0.9 | 1.0 | 1.1 | 1.1 | 1.1 | 1.35 | N |
| QFA18K3-18-X-N | DC-18 | 300 | - | - | 3.5 | - | 1.5 | 1.3 | 1.3 | 1.4 | 1.45 | N |



* Above "X" represents attenuation (dB)

* Size (Exclude Connector): 305*120*110 mm (Attenuation=10-60dB, DC-18GHz); 152*120*110 mm (Attenuation=3dB, DC-3GHz); 254*120*110 mm (Attenuation=6dB, DC-6GHz)

* Temperature: -55--+125°C

500W, N

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|-----------|-----|-----------|------------|------------------|-----------|
| | (GHz) | | 3 | 10 | 20 | 30 | 40, 50, 60 | | |
| QFA18K5-3-X-N | DC-3 | 500 | -0.6/+1.5 | - | - | - | - | - | N |
| QFA18K5-4-X-N | DC-4 | 500 | 2.3 | -0.6/+1.5 | 1.2 | 1.0 | 1.0 | 1.25 | N |
| QFA18K5-8-X-N | DC-8 | 500 | 3.5 | -0.5/+2.0 | 2.0 | 1.5 | 1.1 | 1.30 | N |
| QFA18K5-12.4-X-N | DC-12.4 | 500 | - | 3.0 | 2.0 | -1.5/+2.0 | 1.2 | 1.35 | N |
| QFA18K5-18-X-N | DC-18 | 500 | - | 6.0 | 5.0 | 0/+6.0 | 1.5 | 1.50 | N |



* Above "X" represents attenuation (dB)

* Size (Exclude Connector): 509*120*110mm (Attenuation=10-60dB); 254*120*110mm (Attenuation=3dB)

* Temperature: -55--+125°C

600W, N

| Part Number | Freq. Range | Avg. Power (W@25°C) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | | | | VSWR (max.) | Connector |
|------------------|-------------|------------------------|---|---------|-----------|-----|---------|-----|--------|------|------------------|-----------|
| | (GHz) | | 3 | 6 | 10 | 20 | 30 | 40 | 50, 60 | | | |
| QFA18K6-4-X-N | DC-4 | 600 | 0/+2 | -1/+1.5 | -0.6/+1.5 | 1.2 | 1 | 1.0 | 1.0 | 1.25 | N | |
| QFA18K6-8-X-N | DC-8 | 600 | - | - | -0.5/+2.0 | 2 | 1.1 | 1.1 | 1.1 | 1.30 | N | |
| QFA18K6-12.4-X-N | DC-12.4 | 600 | - | - | 3 | 2 | -1.5/+2 | 1.2 | 1.2 | 1.35 | N | |
| QFA18K6-18-X-N | DC-18 | 600 | - | - | 6 | 5 | -2/+6 | 2 | 1.5 | 1.50 | N | |



* Above "X" represents attenuation (dB)

* Size (Exclude Connector): L*120*110mm (Attenuation=3dB, L=305; Attenuation=6dB, L=407; Attenuation=10-60dB, L=509)

* Temperature: -55--+125°C

Description

Rotary stepped attenuators can adjust the power level of microwave circuit in a certain frequency range by step.

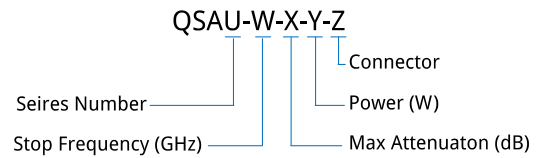


Features:

- * Low VSWR
- * Wide Attenuation Range

Applications:

- * Wireless
- * Radar
- * Laboratory Test



Examples: Rotary Stepped Attenuator, QSA06A Series, DC~6GHz, 0~60dB attenuation, 2W, SMA female, specify QSA06A-6-60-2-S.

Naming Rules

- U: Series Number
- W: Stop Frequency in GHz
- X: Max Attenuation in dB
- Y: Power in Watts
- Z: Connector: 2.92mm (K), 3.5mm (3), SMA (S), N (N)

QSA40, DC~40GHz, 0~9dB, 2W

| Part Number | Freq. | Attenuation (dB) | VSWR (Max.) | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|----------------|---------|-----------------------|------------------|-------------------------------|---------------------------------|----------------|---------------|
| | (GHz) | | | | | | |
| QSA40-32-9-2-Z | DC~32 | 0~9/1 | 1.8 | 2 | 1.2 | 2 | 2.92mm, 3.5mm |
| QSA40-40-9-2-Z | DC~40 | | 1.9 | 2.2 | 1.5 | | |

QSA28, DC~28GHz, 0~90dB, 25W

| Part Number | Freq. | Attenuation (dB) | VSWR (Max.) | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|--------------------|----------|-----------------------|------------------|-------------------------------|---------------------------------|----------------|------------|
| | (GHz) | | | | | | |
| QSA28-18-9-Y-Z | DC~18 | 0~9/1 | 1.6 | 1 | 0.8 | 2, 10 | SMA, 3.5mm |
| QSA28-26.5-9-Y-Z | DC~26.5 | | 1.7 | 1.8 | 1 | | |
| QSA28-28-9-10-Z | DC~28 | 0~70/10 | 1.75 | 1.8 | 1.5 | 10 | SMA, 3.5mm |
| QSA28-18-70-Y-Z | DC~18 | | 1.6 | 1 | 1.5 / 4% | | |
| QSA28-26.5-60-Y-Z | DC~26.5 | 0~60/10 | 1.75 | 1.8 | 1.5 / 4% | 2, 10 | SMA, 3.5mm |
| QSA28-8-90-Y-Z | 0.1~8 | 0~90/10 | 1.6 | 1 | 1.5 / 4% | 2, 10 | SMA, 3.5mm |
| QSA28-12.4-90-Y-Z | 0.1~12.4 | | | | | | |
| QSA28-18-90-Y-Z | 0.1~18 | | | | | | |
| QSA28-18-70-25-Z | DC~18 | 0~70/10 | 1.6 | 1 | 1.5 / 4% | 25 | SMA, 3.5mm |
| QSA28-26.5-70-25-Z | DC~26.5 | | 1.75 | 1.8 | 1.5 / 4% | | |
| QSA28-28-70-25-Z | DC~28 | | 1.75 | 1.8 | 2 / 5% | | |

QSA26A, DC~26.5GHz, 0~99dB, 10W

| Part Number | Freq. | Attenuation (dB) | VSWR (Max.) | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|--------------------|-----------|-----------------------|------------------|-------------------------------|--|----------------|---------------|
| | (GHz) | | | | | | |
| QSA26-8-69-Y-Z | DC~8 | 0~69/1 | 1.5 | 1.25 | 0.5 (0~9dB@DC~8GHz), 0.8 (0~9dB@8~18GHz), 1 (10~19dB), 1.5 (20~49dB), 2 (50~69dB) | 2, 10 | N, SMA, 3.5mm |
| QSA26-12.4-69-Y-Z | DC~12.4 | | 1.6 | 1.5 | | | |
| QSA26-18-69-Y-Z | DC~18 | | 1.75 | 1.75 | | | |
| QSA26-26.5-69-2-3 | DC ~ 26.5 | | 1.85 | 2 | 1.5 (0~9dB), 1.75 (10~19dB), 2 (20~49dB), 2.5 (50~69dB) | 2 | 3.5mm |
| QSA26-8-99-2-Z | DC~8 | 0~99/1 | 1.5 | 1.25 | 0.5 (0~9dB@0.1~8GHz), 0.8 (0~9dB@8~18GHz), 1 (10~19dB), 1.5 (20~49dB), 2 (50~69dB), 2.5 / 3.5% (70~99dB) | 2 | N, SMA, 3.5mm |
| QSA26-12.4-99-2-Z | DC~12.4 | | 1.5 | 1.5 | | | |
| QSA26-18-99-2-Z | DC~18 | | 1.75 | 1.5 | | | |
| QSA26-8-99-10-Z | 0.1~8 | 0~99/1 | 1.5 | 1.25 | 0.5 (0~9dB@0.1~8GHz), 0.8 (0~9dB@8~18GHz), 1 (10~19dB), 1.5 (20~49dB), 2 (50~69dB), 2.5 / 3.5% (70~99dB) | 10 | N, SMA, 3.5mm |
| QSA26-12.4-99-10-Z | 0.1~12.4 | | 1.6 | 1.5 | | | |
| QSA26-18-99-10-Z | 0.1~18 | | 1.75 | 1.75 | | | |

QSA26B, DC~26.5GHz, 0~60dB, 25W

| Part Number | Freq. | Attenuation (dB) | VSWR (Max.) | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|-------------------|---------|-----------------------|------------------|-------------------------------|---------------------------------|----------------|------------|
| | (GHz) | | | | | | |
| QSA26-26.5-60-Y-S | DC~26.5 | 0~60/10 | 1.8 | 1.8 | 1.5 or 4% | 25 | SMA |

QSA18A, DC~18GHz, 0~80dB, 10W

| Part Number | Freq. | Attenuation (dB) | VSWR (Max.) | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|--------------------|---------|-----------------------|------------------|-------------------------------|------------------------------------|----------------|------------|
| | (GHz) | | | | | | |
| QSA18A-8-9-Y-S | DC~8 | 0~9/1 | 1.4 | 0.8 | 0.6 | 2, 10 | SMA |
| QSA18A-12.4-9-Y-S | DC~12.4 | | 1.5 | 1 | 0.8 | | |
| QSA18A-18-9-Y-S | DC~18 | | 1.6 | 1.2 | 1 | | |
| QSA18A-8-90-Y-S | DC~8 | 0~90/10 | 1.4 | 1 | 1.5 (0~60dB), 2.5 / 3.5% (70~90dB) | 2, 10 | SMA |
| QSA18A-12.4-90-Y-S | DC~12.4 | | 1.5 | 1.2 | | | |
| QSA18A-18-90-Y-S | DC~18 | | 1.6 | 1.5 | | | |
| QSA18A-18-70-Y-S | DC~18 | 0~70/10 | 1.65 | 1 | 1.5 or 4% | 25 | SMA |

QSA18B, DC~18GHz, 0~99dB, 5W

| Part Number | Freq. | Attenuation (dB) | VSWR (Max.) | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|--------------------|----------|-----------------------|------------------|-------------------------------|--|----------------|------------|
| | (GHz) | | | | | | |
| QSA18B-8-69-Y-S | DC~8 | 0~69/1 | 1.5 | 1 | 0.5 (0~9dB@DC~8GHz), 0.8 (0~9dB@8~18GHz), 1 (10~19dB), 1.5 (20~49dB), 2 (50~69dB) | 2, 5 | SMA |
| QSA18B-12.4-69-Y-S | DC~12.4 | | 1.6 | 1.25 | | | |
| QSA18B-18-69-Y-S | DC~18 | | 1.75 | 1.5 | | | |
| QSA18B-8-99-Y-S | 0.1~8 | 0~99/1 | 1.5 | 1 | 0.5 (0~9dB@0.1~8GHz), 0.8 (0~9dB@8~18GHz), 1 (10~19dB), 1.5 (20~49dB), 2 (50~69dB), 2.5 / 3.5% (70~99dB) | 2, 5 | SMA |
| QSA18B-12.4-99-Y-S | 0.1~12.4 | | 1.6 | 1.25 | | | |
| QSA18B-18-99-Y-S | 0.1~18 | | 1.75 | 1.5 | | | |

QSA06A, DC~6GHz, 0~90dB, 10W

| Part Number | Freq. | Attenuation (dB) | VSWR | | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|-------------------|---------|-----------------------|----------|----------|-------------------------------|-----------------------------------|----------------|------------|
| | (GHz) | | (Max.) | (Max.) | | | | |
| QSA06A-2.5-1-Y-Z | DC~2.5 | 0~1/0.1 | 1.25 | | 0.5 | 0.2 | 2, 10 | SMA, N |
| QSA06A-3-1-Y-Z | DC~3 | | 1.3 | | 0.5 | 0.2 | | |
| QSA06A-4.3-1-Y-Z | DC~4.3 | | 1.35 | | 0.75 | 0.3 | | |
| QSA06A-6-1-Y-Z | DC~6 | | 1.4 | | 1 | 0.3 | | |
| QSA06A-2.5-10-Y-Z | DC~2.5 | 0~10/1 | 1.25 | | 0.4 | 0.4 | 2, 10 | SMA, N |
| QSA06A-3-10-Y-Z | DC~3 | | 1.3 | | 0.5 | 0.5 | | |
| QSA06A-4.3-10-Y-Z | DC~4.3 | | 1.35 | | 0.75 | 0.5 | | |
| QSA06A-6-10-Y-Z | DC~6 | | 1.4 | | 1 | 0.5 | | |
| QSA06A-2.5-60-Y-Z | DC~2.5 | 0~60/10 | 1.25 | | 0.4 | 0.5 | 2, 10 | SMA, N |
| QSA06A-3-60-Y-Z | DC~3 | | 1.3 | | 0.5 | 0.5 (1~50dB), 0.8 / ±3% (50~60dB) | | |
| QSA06A-4.3-60-Y-Z | DC~4.3 | | 1.35 | | 0.75 | | | |
| QSA06A-6-60-Y-Z | DC~6 | | 1.4 | | 1 | | | |
| QSA06A-2.5-90-Y-Z | DC~2.5 | 0~90/10 | 1.25 | | 0.4 | 0.5 (1~50dB), ±3% (50~90dB) | 2, 10 | SMA, N |
| QSA06A-3-90-Y-Z | DC~3 | | 1.3 | | 0.5 | 0.5 (1~50dB), ±3.5% (50~90dB) | | |

QSA06B, DC~6GHz, 0~100dB, 10W

| Part Number | Freq. (GHz) | Attenuation (dB) | VSWR | | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|--------------------|------------------|-----------------------|------|------|-------------------------------|---|----------------|------------|
| | | | SMA | N | | | | |
| QSA06B-2.5-11-Y-Z | DC~2.5 | 0~11/0.1 | 1.3 | 1.45 | 1 | 0.2 (1dB), 0.4(2~11dB) | 2, 10 | SMA, N |
| QSA06B-3-11-Y-Z | DC~3 | | 1.35 | 1.45 | 1.2 | 0.3 (1dB), 0.5(2~11dB) | | |
| QSA06B-4.3-11-Y-Z | DC~4.3 | | 1.4 | 1.55 | 1.5 | | | |
| QSA06B-6-11-Y-Z | DC~6 | | 1.55 | 1.6 | 1.8 | | | |
| QSA06B-2.5-50-Y-Z | DC~2.5 | 0~50/1 | 1.3 | 1.35 | 1 | 0.5 (1~10dB), 0.8 / 3% (50~60dB) | 2, 10 | SMA, N |
| QSA06B-2.5-70-Y-Z | DC~2.5 | 0~70/1 | 1.3 | 1.45 | 1 | 0.5 (1~10dB), 0.8 / 3% (11~59dB), 1.5 / 3% (60~70dB) | 2, 10 | SMA, N |
| QSA06B-3-70-Y-Z | DC~3 | | 1.35 | 1.45 | 1.2 | | | |
| QSA06B-4.3-70-Y-Z | DC~4.3 | | 1.4 | 1.55 | 1.5 | | | |
| QSA06B-6-70-Y-Z | DC~6 | | 1.55 | 1.6 | 1.8 | | | |
| QSA06B-2.5-100-Y-Z | DC~2.5 | 0~100/1 | 1.3 | 1.45 | 1 | 0.5 (1~10dB), 0.8 / 3% (11~59dB), | 2, 10 | SMA, N |
| QSA06B-3-100-Y-Z | DC~3 | | 1.35 | 1.45 | 1.2 | 1.5 / 3% (60~69dB), ±3.5% (70~100dB) | | |

QSA06C, DC~6GHz, 0~100dB, 10W

| Part Number | Freq. | Attenuation (dB) | VSWR (Max.) | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|--------------------|---------|-----------------------|------------------|-------------------------------|--|----------------|------------|
| | (GHz) | | | | | | |
| QSA06C-2.5-11-Y-N | DC~2.5 | 0~11/0.1 | 1.4 | 1.2 | 0.3 (1dB), 0.5 (2~11dB) | 2, 10 | N |
| QSA06C-3-11-Y-N | DC~3 | | 1.45 | 1.2 | | | |
| QSA06C-4.3-11-Y-N | DC~4.3 | | 1.5 | 1.5 | | | |
| QSA06C-6-11-Y-N | DC~6 | | 1.65 | 1.8 | | | |
| QSA06C-2.5-70-Y-N | DC~2.5 | 0~70/1 | 1.4 | 1.2 | 0.8 / 3% (0~60dB), 1.5 / 3% (61~70dB) | 2, 10 | N |
| QSA06C-3-70-Y-N | DC~3 | | 1.45 | 1.2 | | | |
| QSA06C-4.3-70-Y-N | DC~4.3 | | 1.5 | 1.5 | | | |
| QSA06C-6-70-Y-N | DC~6 | | 1.65 | 1.8 | | | |
| QSA06C-2.5-100-Y-N | DC~2.5 | 0~100/1 | 1.4 | 1.2 | 0.8 / 3% (0~59dB), 1.5 / 3% (60~69dB), ±3.5% (70~100dB) | 2, 10 | N |
| QSA06C-3-100-Y-N | DC~3 | | 1.45 | 1.2 | | | |

QSA06D, DC~6GHz, 0~101dB, 10W

| Part Number | Freq. | Attenuation (dB) | VSWR (Max.) | Insertion Loss (dB Max.) | Attenuation Accuracy (±dB) | Power (W) | Connectors |
|--------------------|---------|-----------------------|------------------|-------------------------------|--|----------------|------------|
| | (GHz) | | | | | | |
| QSA06D-2.5-71-Y-N | DC~2.5 | 0~71/0.1 | 1.5 | 1.5 | 0.3 (0.1~1dB), 0.4 (1~10dB), 0.8 (10~60dB), 1.5 (71dB) | 2, 10 | N |
| QSA06D-3-71-Y-N | DC~3 | | 1.6 | 1.7 | | | |
| QSA06D-4.3-71-Y-N | DC~4.3 | | 1.7 | 2 | | | |
| QSA06D-6-71-Y-N | DC~6 | | 1.75 | 2.5 | | | |
| QSA06D-2.5-101-Y-N | DC~2.5 | 0~101/0.1 | 1.5 | 1.5 | 0.3 (0.1~1dB), 0.4 (1~10dB), 0.8 (10~60dB), 1.5 (61~70dB), ±3.5% (70~101dB) | 2, 10 | N |
| QSA06D-3-101-Y-N | DC~3 | | 1.6 | 1.7 | | | |

Description

The continuously variable attenuators can adjust the power level of microwave circuit continuously in a certain frequency range.

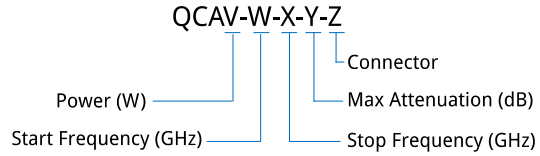


Features:

- * Low VSWR
- * High Attenuation Flatness

Applications:

- * Wireless
- * Radar
- * Laboratory Test



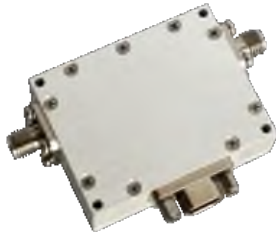
Examples: Continuously variable attenuator, 75W, 2.9~3.1GHz, 0~10dB attenuation, N, specify QCA75-2.9-3.1-10-N.

| Part Number | Freq (GHz) | Attenuation Range (dB) | Power (W) | Connector | Size (mm) |
|------------------|------------|------------------------|-----------|-----------|-------------|
| QCA1-0-2.5-10-N | DC~2.5 | 0~10 | 1 | N | 47.5*42*20 |
| QCA1-0-2.5-16-N | | 0~16 | | | |
| QCA1-0-2.5-10-S | | 0~10 | | SMA | 41*38*20 |
| QCA1-0-2.5-16-S | | 0~16 | | | |
| QCA10-0.5-4-15-N | 0.5~4 | 0~15 | 10 | N | 186*72*19 |
| QCA50-W-X-10-N | 0.9~4 | 0~10 | 50 | N | 120*96.5*75 |
| QCA75-W-X-10-N | 0.9~4 | 0~10 | 75 | N | 134.4*98*75 |
| QCA75-W-X-15-N | | 0~15 | | | |
| QCAK1-W-X-10-N | 0.9~10.5 | 0~10 | 100 | N | 190*102*75 |
| QCAK1-W-X-12-N | | 0~12 | | | |
| QCAK1-W-X-15-N | | 0~15 | | | |
| QCAK1-W-X-20-N | | 0~20 | | | |
| QCAK3-W-X-10-N | 0.9~10.5 | 0~10 | 300 | N | 259*102*75 |
| QCAK3-W-X-12-N | | 0~12 | | | |
| QCAK3-W-X-15-N | | 0~15 | | | |
| QCAK3-W-X-25-N | | 0~25 | | | |
| QCA10-2-18-40-N | 2~18 | 0~40 | 10 | N | 186*72*21 |

*PS: Above W&X represents Freq. Range, only have 100MHz、200MHz bandwidth

Description

Digitally controlled attenuators control electronic switches at all levels by programming.



Features:

- * Broadband
- * High Dynamic Range

Applications:

- * Wireless
- * Radar
- * Laboratory Test

QDA-W-X-Y-Z

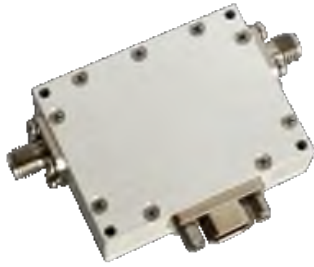


Examples: Digitally controlled attenuator, 2.9~3.1GHz, 0~50dB attenuation, 1dB step, SMA female, specify QDA-2900-3100-50-1.

| Part Number | Freq. (GHz) | Attenuation (dB) | Step (dB) | Control Digit (Bit) | Accuracy (dB typ.) | IL (dB typ.) | VSWR (typ.) | Input Power (dBm max.) | Connector |
|------------------------|-------------|------------------|-----------|---------------------|--------------------|--------------|-------------|------------------------|-----------|
| QDA-0.9-40000-31-0.5 | 0.0009~40 | 0~31 | 0.5 | 6 | 1 | 4.5 | 2 | 25 | 2.92mm |
| QDA-100-6000-32.2-0.25 | 0.1~6 | 0~32.2 | 0.25 | 7 | 1 | 1.5 | 2 | 25 | SMA |
| QDA-100-40000-31-1 | 0.1~40 | 0~31 | 1 | 5 | 2 | 6.4 | 2 | 25 | 2.92mm |
| QDA-108-400-31-1 | 0.108~0.4 | 0~31 | 1 | 5 | ±1% | 1.2 | 1.5 | 30 | SMA |
| QDA-300-600-31-1 | 0.3~0.6 | 0~31 | 1 | 5 | ±3% | 1.5 | 1.5 | 25 | SMA |
| QDA-960-1300-31-1 | 0.96~1.3 | 0~31 | 1 | 5 | ±3% | 1.5 | 1.5 | 30 | SMA |
| QDA-960-1300-63-1 | 0.96~1.3 | 0~63 | 1 | 7 | ±3% | 3.4 | 1.2 | 30 | SMA |
| QDA-960-1300-70-10 | 0.96~1.3 | 0~70 | 10 | 4 | ±3% | 3.5 | 1.2 | 30 | SMA |
| QDA-2200-8000-31.5-0.5 | 2.2~8 | 0~31.5 | 0.5 | 6 | ±3% | 5.5 | 2.2 | 27 | SMA |

Description

Voltage controlled attenuator can continuously adjust the power level of microwave circuit in a certain frequency range.

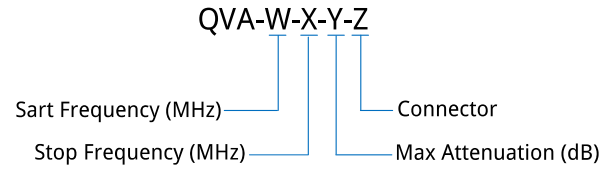


Features:

- * Low VSWR
- * High Attenuation Flatness

Applications:

- * Wireless
- * Radar
- * Laboratory Test



Examples: Voltage controlled attenuator, 2.9~3.1GHz, 0~50dB attenuation, SMA female, specify QVA-2900-3100-50-S.

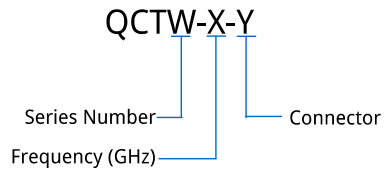
| Part Number | Freq. (GHz) | Attenuation (dB) | Flatness (±dB) | Control Voltage (V) | IL (dB typ.) | VSWR (typ.) | Input Power (dBm max.) | Connectors |
|----------------------|-------------|------------------|----------------|---------------------|--------------|-------------|------------------------|------------|
| QVA-0-18000-30-S | DC~18 | 0~30 | 2 | 0~5 | 2.8 | 2 | 18 | SMA |
| QVA-230-290-30-S | 0.23~0.29 | 0~30 | 1 | 0~5 | 3 | 2 | - | SMA |
| QVA-5000-30000-33-K | 5~30 | 3~33 | 2 | -5~0 | 2.5 | 2 | 30 | 2.92mm |
| QVA-10000-40000-33-K | 10~40 | 3~33 | 2 | -5~0 | 2.9 | 2 | 30 | 2.92mm |

Description

Coaxial Termination is also called Coaxial Load, used to absorb all the microwave energy from transmission line and improve the matching performance of the circuit. It is usually connected to the terminal of the circuit.

Features: Broadband, Low VSWR, High Power.

Applications: Transmitters, Antennas, Laboratory Test, Impedance Matching.



0.5W

| Part Number | Freq. Range (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) male / female |
|--------------|-------------------|---------------------|-------------|-----------|-------------------------|
| QCT33R5-33-3 | DC~33 | 0.5 | 1.25 | 3.5mm | L: 12/11.9 |
| QCT40R5-40-K | DC~40 | | 1.25 | 2.92mm | L: 12/11.9 |
| QCT40R5-40-A | | | 1.30 | SSMA | L: 10.9/9.9 |
| QCT40R5-40-P | | | 1.40 | SMP | Φ4.8*9.9/Φ4.8*9.4 |
| QCT40R5-40-G | | | 1.50 | SSMP | Φ4.8*10.8/Φ4.8*10 |
| QCT50R5-50-2 | | | DC~50 | 1.40 | 2.4mm |
| QCT67R5-67-V | DC~67 | | 1.45 | 1.85mm | Φ9.3*16.1/Φ7*16.7 |



*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number

*Temperature: -55~+125°C

1W

| Part Number | Freq. Range (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) male / female |
|----------------|-------------------|---------------------|-------------|------------|-------------------------|
| QCT1801-18-S | DC~18 | 1 | 1.25 | SMA male | 14.9*Φ6.3 |
| QCT1801-18-A | | | | SSMA male | 16*Φ6.3 |
| QCT11001-110-1 | DC~110 | | 1.6 | 1.0mm male | 9.7*Φ6/9.4*Φ5 |



*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number

*Temperature: -45~+85°C

5W

| Part Number | Freq. (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) male / female |
|----------------|-------------|---------------------|-------------|-----------------------|-------------------------|
| QCT1805-4-N | DC~4 | 5 | 1.20 | N | Φ16.5*36/- |
| QCT1805-8-N | DC~8 | | 1.25 | | |
| QCT1805-12.4-N | DC~12.4 | | 1.30 | | |
| QCT1805-18-N | DC~18 | | 1.40 | | |
| QCT1805-4-S | DC~4 | | 1.15 | SMA | Φ19*20/- |
| QCT1805-8-S | DC~8 | | 1.20 | | |
| QCT1805-12.4-S | DC~12.4 | | 1.25 | | |
| QCT1805-18-S | DC~18 | | 1.30 | | |
| QCT2605-26.5-S | DC~26.5 | | 1.25 | SMA | Φ15.8*28.4/Φ15.8*28.1 |
| QCT2605-26.5-3 | DC~26.5 | | 1.20 | 3.5mm | Φ15.7*26.3/Φ15.7*25.5 |
| QCT4005-40-K | DC~40 | 1.25 | 2.92mm | Φ15.8*29.6/Φ15.8*27.8 | |
| QCT5005-50-2 | DC~50 | 1.30 | 2.4mm | Φ31.8*17.8 | |
| QCT6705-67-V | DC~67 | 1.35 | 1.85mm | Φ31.8*17.8 | |



*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number

*Temperature: -55~+85°C

2W

| Part Number | Freq. Range (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) male / female |
|----------------|-------------------|---------------------|-------------|---------------------|-----------------------------------|
| QCT1802-4-N | DC~4 | 2 | 1.20 | N | Φ16.5*30/Φ16.5*28 L: 25.8/23.6 |
| QCT1802-8-N | DC~8 | | 1.25 | | |
| QCT1802-12.4-N | DC~12.4 | | 1.30 | | |
| QCT1802-18-N | DC~18 | | 1.20 | | |
| QCT1802-4-T | DC~4 | | 1.20 | TNC | Φ25*68/Φ12.7*24 |
| QCT1802-8-T | DC~8 | | 1.25 | | |
| QCT1802-12.4-T | DC~12.4 | | 1.35 | | |
| QCT1802-18-T | DC~18 | | 1.40 | | |
| QCT1802-4-A | DC~4 | | 1.15 | SSMA | Φ9*22.5/Φ9*21 |
| QCT1802-8-A | DC~8 | | 1.20 | | |
| QCT1802-12.4-A | DC~12.4 | | 1.25 | | |
| QCT1802-18-A | DC~18 | | 1.30 | | |
| QCT2602-26.5-S | DC~26.5 | | 1.20 | SMA | Φ9*20/Φ9*19.5 |
| QCT3302-33-3 | DC~33 | | 1.15 | 3.5mm | L: 12/11.9 |
| QCT4002-40-K | DC~40 | | 1.20 | 2.92mm | L: 12.8/12.7 |
| QCT4002-40-A | | | 1.30 | SSMA | L: 10.9/9.9 |
| QCT4002-40-P | | 1.40 | SMP | Φ4.8*9.9/Φ4.8*9.4 | |
| QCT4002-40-G | | 1.50 | SSMP | Φ4.8*10.8/Φ4.8*10 | |
| QCT5002-50-2 | DC~50 | 1.25 | 2.4mm | L: 12.4/13 | |
| QCT6702-67-V | DC~67 | 1.30 | 1.85mm | Φ6.4*11.9/Φ6.4*13.6 | |



*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number
 *Temperature: -55~+125°C

10W

| Part Number | Freq. (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) male / female |
|----------------|-------------|---------------------|-------------|--------------|-------------------------|
| QCT1810-4-N | DC~4 | 10 | 1.20 | N | Φ20*51/- |
| QCT1810-8-N | DC~8 | | 1.25 | | |
| QCT1810-12.4-N | DC~12.4 | | 1.35 | | |
| QCT1810-18-N | DC~18 | | 1.40 | | |
| QCT1810-4-S | DC~4 | | 1.20 | SMA | Φ15.8*39.5/- |
| QCT1810-8-S | DC~8 | | 1.25 | | |
| QCT1810-12.4-S | DC~12.4 | | 1.35 | | |
| QCT1810-18-S | DC~18 | | 1.40 | | |
| QCT2610-26.5-S | DC~26.5 | | 1.30 | SMA | Φ16.5*39.5/Φ16.5*41 |
| QCT2610-26.5-3 | DC~26.5 | | 1.25 | 3.5mm | Φ16.5*38.7/Φ16.5*40.2 |
| QCT4010-40-K | DC~40 | 1.35 | 2.92mm | Φ50.8*44.5/- | |



*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number
 *Temperature: -55~+85°C

20W

| Part Number | Freq. (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) | | |
|----------------|-------------|---------------------|-------------|-----------|---------------|------------|-------------------|
| | | | | | male / female | | |
| QCT1820-4-N | DC~4 | 20 | 1.20 | N | | | |
| QCT1820-8-N | DC~8 | | 1.25 | | | | |
| QCT1820-12.4-N | DC~12.4 | | 1.35 | | | | |
| QCT1820-18-N | DC~18 | | 1.40 | | | | |
| QCT1820-4-S | DC~4 | | 1.20 | SMA | | Φ38*39.5/- | |
| QCT1820-8-S | DC~8 | | 1.25 | | | | |
| QCT1820-12.4-S | DC~12.4 | | 1.35 | | | | |
| QCT1820-18-S | DC~18 | | 1.40 | | | | |
| QCT2620-26.5-S | DC~26.5 | | 1.30 | SMA | | | Φ44*45.4/Φ44*44.1 |
| QCT4020-40-K | DC~40 | | 1.30 | 2.92mm | | | Φ44*45.6/Φ44*43.8 |

*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number
 *Temperature: -55~+85°C



30W

| Part Number | Freq. (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) |
|----------------|-------------|---------------------|-------------|-----------|-------------------|
| | | | | | male / female |
| QCT2630-26.5-S | DC~26.5 | 30 | 1.30 | SMA | Φ54*52.4/Φ54*52.1 |
| QCT4030-40-K | DC~40 | | 1.30 | 2.92mm | Φ54*53.6/Φ54*51.8 |

*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number
 *Temperature: -55~+125°C



50W

| Part Number | Freq. Range (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) | | |
|----------------|-------------------|---------------------|-------------|--------------------|---------------|-------------------|-------------------|
| | | | | | male / female | | |
| QCT1850-4-N | DC~4 | 50 | 1.20 | N | Φ64*90/Φ64*85 | | |
| QCT1850-8-N | DC~8 | | 1.25 | | | | |
| QCT1850-12.4-N | DC~12.4 | | 1.35 | | | | |
| QCT1850-18-N | DC~18 | | 1.40 | | | | |
| QCT1850-4-T | DC~4 | | 1.20 | TNC | | Φ64*88.5/Φ64*84.5 | |
| QCT1850-8-T | DC~8 | | 1.25 | | | | |
| QCT1850-12.4-T | DC~12.4 | | 1.35 | | | | |
| QCT1850-18-T | DC~18 | | 1.40 | | | | |
| QCT1850-4-S | DC~4 | | 1.20 | SMA | | | Φ64*90.5/Φ64*89.5 |
| QCT1850-8-S | DC~8 | | 1.25 | | | | |
| QCT1850-12.4-S | DC~12.4 | 1.35 | | | | | |
| QCT1850-18-S | DC~18 | 1.40 | | | | | |
| QCT2650-26.5-S | DC~26.5 | 1.30 | SMA | Φ54*89.4/Φ54*89.1 | | | |
| QCT2650-26.5-3 | DC~26.5 | 1.25 | 3.5mm | Φ63*63.5/Φ63*62.7 | | | |
| QCT4050-40-K | DC~40 | 1.35 | 2.92mm | Φ54*100.6/Φ54*98.8 | | | |

*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number
 *Temperature: -55~+85°C



100W

| Part Number | Freq. (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) male / female |
|----------------|-------------|---------------------|-------------|-----------|-------------------------|
| QCT18K1-4-N | DC~4 | 100 | 1.15 | N | Φ64*141/Φ64*136 |
| QCT18K1-8-N | DC~8 | | 1.20 | | |
| QCT18K1-12.4-N | DC~12.4 | | 1.25 | | |
| QCT18K1-18-N | DC~18 | | 1.35 | | |
| QCT18K1-4-S | DC~4 | | 1.15 | SMA | Φ64*141/Φ64*140.5 |
| QCT18K1-8-S | DC~8 | | 1.20 | | |
| QCT18K1-12.4-S | DC~12.4 | | 1.25 | | |
| QCT18K1-18-S | DC~18 | | 1.35 | | |
| QCT26K1-26.5-S | DC~26.5 | | 1.40 | SMA | Φ63*119.2/- |



*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number
 *Temperature: -55~+85°C

150 ~ 500W

| Part Number | Freq. Range (GHz) | Avg. Power (W@25°C) | VSWR (max.) | Connector | Size (mm) male / female |
|-----------------|-------------------|---------------------|-------------|-----------|-------------------------|
| QCT18K15-4-N | DC~4 | 150 | 1.20 | N | 192*120*110/- |
| QCT18K15-8-N | DC~8 | | 1.25 | | |
| QCT18K15-12.4-N | DC~12.4 | | 1.35 | | |
| QCT18K15-18-N | DC~18 | | 1.45 | | |
| QCT18K2-4-N | DC~4 | 200 | 1.20 | N | 243*110*120/- |
| QCT18K2-8-N | DC~8 | | 1.25 | | |
| QCT18K2-12.4-N | DC~12.4 | | 1.35 | | |
| QCT18K2-18-N | DC~18 | | 1.40 | | |
| QCT18K25-4-N | DC~4 | 250 | 1.20 | N | 294*110*120/- |
| QCT18K25-8-N | DC~8 | | 1.25 | | |
| QCT18K25-12.4-N | DC~12.4 | | 1.35 | | |
| QCT18K25-18-N | DC~18 | | 1.45 | | |
| QCT18K3-4-N | DC~4 | 300 | 1.20 | N | 345*120*110/340*120*110 |
| QCT18K3-8-N | DC~8 | | 1.25 | | |
| QCT18K3-12.4-N | DC~12.4 | | 1.35 | | |
| QCT18K3-18-N | DC~18 | | 1.45 | | |
| QCT18K5-4-N | DC~4 | 500 | 1.20 | N | 549*120*110/- |
| QCT18K5-8-N | DC~8 | | 1.25 | | |
| QCT18K5-12.4-N | DC~12.4 | | 1.35 | | |
| QCT18K5-18-N | DC~18 | | 1.60 | | |
| QCT18K5-4-7 | DC~4 | 500 | 1.2 | 7/16 DIN | 553*120*110/- |
| QCT18K5-6-7 | DC~6 | | 1.25 | | |
| QCT18K6-4-N | DC~4 | 600 | 1.20 | N | 549*120*110/544*120*110 |
| QCT18K6-8-N | DC~8 | | 1.25 | | |
| QCT18K6-12.4-N | DC~12.4 | | 1.35 | | |
| QCT18K6-18-N | DC~18 | | 1.45 | | |



*PS: The default polarity of each connector is male, if you need female connector, please add 'F' after each connector in the Part Number
 *Temperature: -55~+125°C



QMSDUV-F-WXYZ



Features:

- * DC~40GHz
- * High Power
- * 1M Cycles

Applications:

- * Test Systems
- * Radar
- * Instrumentation

Naming Rules

D: DPDT and 2P3T switch reserved, the others are default

U: 2~18(SP2T~SP18T)

V: RF Connectors: SC (E), TNC (T), N (N), SMA (S), 2.92mm (K), 2.4mm (2), 1.85mm (V)

W: Actuator Type: Failsafe (0), Latching (1), Normally Open (3)

X: Voltage: +12V (E), +18V (H), +24V (K), +28V (m)

Y: Power Interface: Pin (0), D-Sub (1)

Z: Additional Options: TTL (T), Indicators (I), Extended Temperature (Z), High Power Version (P)

Examples: SP4T switch, DC~40GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify QMS4K-40-3E1TI.

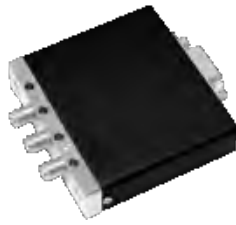
PS: Standard Temperature: -25~+65°C, Extended Temperature: -55~+85°C

| Part Number | Switch Type | Freq. (GHz) | Insertion Loss (dB, max.) | Isolation (dB, min.) | VSWR (max.) | Actuator Type | Voltage | RF Connector | Power Interface |
|------------------|-------------|-------------|---------------------------|----------------------|-------------|----------------------|--------------------|--------------|-----------------|
| QMS2E-6-WXYZ | SPDT | DC~2 | 0.2 | 70 | 1.15 | Failsafe | +12V, +18V | SC | Pin |
| | | DC~4 | 0.3 | 60 | 1.3 | Latching | +24V, +28V | | D-Sub |
| | | DC~6 | 0.5 | 60 | 1.5 | | | | |
| QMS2N-12.4-WXYZ | SPDT | DC~2 | 0.2 | 80 | 1.15 | Failsafe | +12V, +18V | N | Pin |
| | | DC~4 | 0.25 | 80 | 1.2 | Latching | +24V, +28V | | D-Sub |
| | | DC~12.4 | 0.5 | 60 | 1.5 | | | | |
| QMS2S-18-WXYZ | SPDT | DC~6 | 0.2 | 70 | 1.2 | Failsafe | +12V, +18 | SMA | Pin |
| | | DC~12 | 0.25 | 70 | 1.3 | Latching | +24V, +28V | | D-Sub |
| | | DC~18 | 0.4 | 60 | 1.4 | | | | |
| QMS2S-20-WXYZ | | DC~20 | 0.5 | 60 | 1.5 | | | | |
| QMS2K-26.5-WXYZ | SPDT | DC~26.5 | 0.7 | 55 | 1.7 | Failsafe | +12V, +18V | 2.92mm | Pin |
| QMS2K-40-WXYZ | | DC~40 | 1.0 | 50 | 2.0 | Latching | +24V, +28V | | D-Sub |
| QMS22-50-WXYZ | SPDT | DC~50 | 0.9 | 45 | 1.9 | Failsafe Latching | +12V +24V, +28V | 2.4mm | Pin |
| QMSD2N-12.4-WXYZ | DPDT | DC~2 | 0.2 | 80 | 1.15 | Failsafe | +12V, +18V | N | Pin |
| | | DC~4 | 0.25 | 70 | 1.2 | Latching | +24V, +28V | | D-Sub |
| | | DC~12.4 | 0.5 | 50 | 1.5 | | | | |
| QMSD2S-18-WXYZ | DPDT | DC~6 | 0.2 | 70 | 1.3 | Failsafe | +12V, +18V | SMA | Pin |
| | | DC~12 | 0.25 | 70 | 1.4 | Latching | +24V, +28V | | D-Sub |
| | | DC~18 | 0.4 | 60 | 1.5 | | | | |

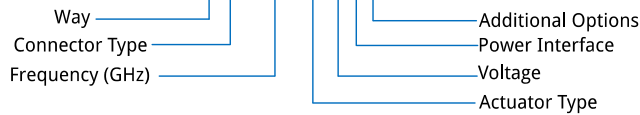
*PS: Coaxial switches power curve please refer to appendi

| Part Number | Switch Type | Freq. (GHz) | Insertion Loss (dB, max.) | Isolation (dB, min.) | VSWR (max.) | Actuator Type | Voltage | RF Connector | Power Interface | |
|------------------|-------------|----------------|------------------------------|-------------------------|----------------|---------------|--------------------------|-----------------|--------------------|----|
| QMSD2K-26.5-WXYZ | DPDT | DC~26.5 | 0.9 | 55 | 1.7 | Failsafe | +12V, +18V | 2.92mm | Pin | |
| QMSD2K-40-WXYZ | | DC~40 | 1.3 | 50 | 2.0 | Latching | +24V, +28V | | D-Sub | |
| QMSD3S-18-WXYZ | 2P3T | DC~6 | 0.2 | 70 | 1.2 | Failsafe | +12V, +18V | SMA | Pin | |
| | | DC~12 | 0.25 | 70 | 1.3 | Latching | +24V, +28V | | D-Sub | |
| | | DC~18 | 0.4 | 60 | 1.4 | | | | | |
| QMSD3K-26.5-WXYZ | 2P3T | DC~26.5 | 0.7 | 55 | 1.7 | Failsafe | +12V, +18V | 2.92mm | Pin | |
| QMSD3K-40-WXYZ | | DC~40 | 1.0 | 50 | 2.0 | Latching | +24V, +28V | | D-Sub | |
| QMSUV-12.4-3X1Z | SP3T~SP6T | DC~4 | 0.3 | 70 | 1.25 | Normally Open | +12V, +18V | N | D-Sub | |
| | | DC~8 | 0.4 | 60 | 1.45 | | +24V, +28V | | | SC |
| | | DC~12.4 | 0.7 | 55 | 1.7 | | TNC | | | |
| QMSUS-18-3X1Z | SP3T~SP6T | DC~6 | 0.3 | 70 | 1.3 | Normally Open | +12V, +18V | SMA | D-Sub | |
| | | DC~12 | 0.4 | 60 | 1.4 | | +24V, +28V | | | |
| | | DC~18 | 0.5 | 60 | 1.5 | | | | | |
| QMS4S-20-3X1Z | SP4T | DC~20 | 0.6 | 60 | 1.6 | Normally Open | +12V, +18V | SMA | D-Sub | |
| QMS6S-20-3X1Z | SP6T | | | | | | +24V, +28V | | | |
| QMSUK-26.5-3X1Z | SP3T~SP6T | DC~26.5 | 0.8 | 50 | 1.9 | Normally Open | +12V, +18V | 2.92mm | D-Sub | |
| QMSUK-40-3X1Z | | DC~40 | 1.0 | 50 | 2.0 | | +24V, +28V | | | |
| QMSUS-4-3X1Z | SP7T~SP18T | DC~4 | 0.25 | 70 | 1.25 | Normally Open | +12V, +18V +24V, +28V | SMA | D-Sub | |
| QMSUSD-12.4-3X1Z | SP7T~SP12T | DC~8 | 0.4 | 65 | 1.4 | Normally Open | +12V, +18V | SMA | D-Sub | |
| | | DC~12.4 | 0.6 | 60 | 1.5 | | +24V, +28V | | | |
| QMSUS-16-3X1Z | SP11T~SP12T | DC~16 | 0.6 | 60 | 1.6 | Normally Open | +12V, +18V +24V, +28V | SMA | D-Sub | |
| QMSUS-18-3X1Z | SP7T~SP10T | DC~18 | 0.8 | 55 | 1.6 | Normally Open | +12V, +18V +24V, +28V | SMA | D-Sub | |
| QMSUK-26.5-3X1Z | SP7T~SP10T | DC~26.5 | 0.8 | 55 | 1.9 | Normally Open | +12V, +18V +24V, +28V | 2.92mm | D-Sub | |

*PS: Coaxial switches power curve please refer to appendix.



QMSUVT-F-WXYZ



Examples: SP4T terminated switch, DC~40GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify QMS4KT-40-3E1TI.

Features:

- * DC~40GHz
- * High Power
- * 1M Cycles

Applications:

- * Test Systems
- * Radar
- * Instrumentation

Naming Rules

U: 2~12 (SP2T ~ SP12T)

V: RF Connectors: SMA (S), 2.92mm (K)

W: Actuator Type: Failsafe (0), Latching (1), Normally Open (3)

X: Voltage: +12V (E), +18V (H), +24V (K), +28V (m)

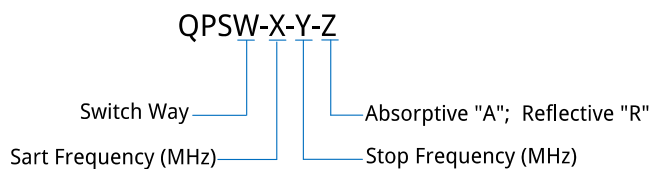
Y: Power Interface: Pin (0), D-Sub (1)

Z: Additional Options: TTL (T), Indicators (I), Extended Temperature (Z), High Power Version (P)

PS: Standard Temperature: -25~+65°C, Extended Temperature: -55~+85°C

| Part Number | Switch Type | Freq. (GHz) | Insertion Loss (dB, max.) | Isolation (dB, min.) | VSWR (max.) | Actuator Type | Voltage | RF Connector | Power Interface |
|------------------|-------------|-------------|---------------------------|----------------------|-------------|---------------|------------|--------------|-----------------|
| QMS2ST-18-WXYZ | SPDT | DC~6 | 0.2 | 70 | 1.2 | Failsafe | +12V, +18V | SMA | Pin |
| | | DC~12 | 0.25 | 70 | 1.3 | | | | |
| | | DC~18 | 0.4 | 60 | 1.4 | | | | |
| QMS2ST-20-WXYZ | | DC~20 | 0.5 | 60 | 1.5 | Latching | +24V, +28V | | D-Sub |
| QMS2KT-26.5-WXYZ | SPDT | DC~26.5 | 0.7 | 55 | 1.7 | Failsafe | +12V, +18V | 2.92mm | Pin |
| QMS2KT-40-WXYZ | | DC~40 | 1.0 | 50 | 2.0 | Latching | +24V, +28V | | D-Sub |
| QMSUST-18-WX1Z | SP3T~SP6T | DC~6 | 0.3 | 80 | 1.3 | Latching | +12V, +18V | SMA | D-Sub |
| | | DC~12 | 0.4 | 70 | 1.4 | Normally Open | +24V, +28V | | |
| | | DC~18 | 0.5 | 60 | 1.5 | | | | |
| QMS4ST-20-WX1Z | SP4T | DC~20 | 0.6 | 60 | 1.6 | Latching | +12V, +18V | SMA | D-Sub |
| QMS6ST-20-WX1Z | SP6T | | | | | Normally Open | +24V, +28V | | |
| QMSUKT-26.5-WX1Z | SP3T~SP6T | DC~26.5 | 0.8 | 50 | 1.9 | Latching | +12V, +18V | 2.92mm | D-Sub |
| QMSUKT-40-WX1Z | | DC~40 | 1.0 | 50 | 2.0 | Normally Open | +24V, +28V | | |
| QMSUST-18-WX1Z | SP7T~SP12T | DC~6 | 0.3 | 70 | 1.3 | Latching | +12V, +18V | SMA | D-Sub |
| | | DC~12 | 0.6 | 60 | 1.5 | Normally Open | +24V, +28V | | |
| | | DC~18 | 0.8 | 60 | 1.8 | | | | |
| QMSUKT-26.5-WX1Z | SP7T~SP10T | DC~26.5 | 0.9 | 50 | 1.9 | Latching | +12V, +18V | 2.92mm | D-Sub |
| | | | | | | Normally Open | +24V, +28V | | |

*PS: Coaxial switches power curve please refer to appendix.


Features:

* DC~40GHz

Applications:

- * Test Systems
- * Radar
- * Instrumentation

Examples: SPDT switches, DC~40GHz, reflective, specify QPS2-0-40000-R.

| Part Number | Type | Way | Freq. (GHz) | Switch Time (nS) | IL (dB, typ) | Isolation (dB, typ.) | VSWR (typ.) | Input Power (dBm, max.) | Connectors |
|------------------|------------|------|-------------|------------------|--------------|----------------------|-------------|-------------------------|------------|
| QPS2-0-6000-A | Absorptive | SPDT | DC~6 | 10 | 2.2 | 56 | 1.2 | 24 | SMA |
| QPS2-0-40000-R | Reflective | SPDT | DC~40 | 4 | 2.3 | 36 | 2 | 25 | 2.92mm |
| QPS2-0.9-44000-A | Absorptive | SPDT | 0.0009~44 | 10000 | 2.2 | 48 | 1.2 | 20 | 2.92mm |
| QPS2-0.95-200-R | Reflective | SPDT | 0.00095~0. | 100 | 1 | 40 | 1.5 | 38 | SMA |
| QPS2-5-6000-R | Reflective | SPDT | 0.005~6 | 1900 | 1.25 | 33 | 1.4 | 37 | SMA |
| QPS3-0-18000-A | Absorptive | SP3T | DC~18 | 66 | 2 | 42 | 2 | 27 | SMA |
| QPS4-0-20000-A | Absorptive | SP4T | DC~20 | 100 | 1.8 | 35 | 2 | 27 | SMA |
| QPS4-0.9-44000-A | Absorptive | SP4T | 0.0009~44 | 100 | 2.4 | 39 | 2 | 25 | 2.92mm |
| QPS5-0-18000-A | Absorptive | SP5T | DC~18 | 60 | 2.5 | 44 | 2 | 27 | SMA |
| QPS6-0-18000-A | Absorptive | SP6T | DC~18 | 60 | 2.5 | 44 | 2 | 27 | SMA |



Features:

- * Low Insertion Loss
- * High Isolation

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

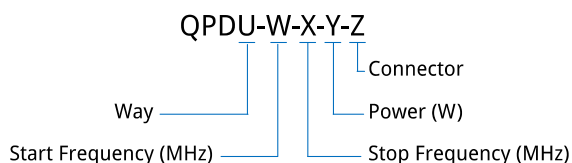
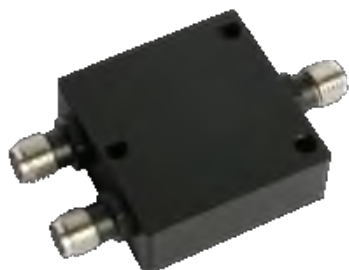
| Part Number | Frequency (GHz) | IL (dB) | Isolation (dB) | VSWR (Max.) | Voltage (V AC) | Description |
|---------------|-----------------|---------|----------------|-------------|----------------|-------------------|
| QMSM-0-6-2-2 | DC-6 | 1.2 | 70 | 1.4 | 220 | 2*2, Non-blocking |
| QMSM-0-6-4-4 | DC-6 | 1.8 | 70 | 1.6 | 220 | 4*4, Non-blocking |
| QMSM-0-6-6-6 | DC-6 | 1.8 | 70 | 1.6 | 220 | 6*6, Non-blocking |
| QMSM-0-6-8-8 | DC-6 | 2 | 70 | 1.6 | 220 | 8*8, Non-blocking |
| QMSM-0-12-2-2 | DC-12.4 | 1.8 | 60 | 1.6 | 220 | 2*2, Non-blocking |
| QMSM-0-12-4-4 | DC-12.4 | 2 | 60 | 1.8 | 220 | 4*4, Non-blocking |
| QMSM-0-12-6-6 | DC-12.4 | 2.5 | 60 | 1.8 | 220 | 6*6, Non-blocking |
| QMSM-0-12-8-8 | DC-12.4 | 3 | 60 | 1.8 | 220 | 8*8, Non-blocking |
| QMSM-0-18-2-2 | DC-18 | 2 | 60 | 1.8 | 220 | 2*2, Non-blocking |
| QMSM-0-18-4-4 | DC-18 | 4 | 60 | 2 | 220 | 4*4, Non-blocking |
| QMSM-0-18-6-6 | DC-18 | 5 | 70 | 1.4 | 220 | 6*6, Non-blocking |
| QMSM-0-18-8-8 | DC-18 | 5 | 50 | 2 | 220 | 8*8, Non-blocking |
| QMSM-0-40-2-2 | DC-40 | 3 | 40 | 3 | 220 | 2*2, Non-blocking |
| QMSM-0-40-4-4 | DC-40 | 4 | 40 | 3 | 220 | 4*4, Non-blocking |

Description

Power divider is a kind of device that divides one input signal into two or more channels with equal amplitude and phase. It can also combine multiple signal into one channel, which is also called combiner.

The electrical specifications include frequency range, Power Handling, insertion loss, isolation, VSWR, etc.

Features: Broadband, High Reliability, Low Insertion; **Applications:** Amplifiers, Mixers, Antennas and Laboratory etc.



Environmental

Operation Temperature: -35~+75°C

Impedance: 50Ω

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|-------------------|--------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|----------------|
| QPD2-0-2000-2-S | DC~2 | 2 | 6.0±0.5 | 6 | 0.5 | - | 1.2 | SMA | 28*28*10 |
| QPD2-0-2400-2-S | DC~2.4 | 2 | 6.0±0.5 | 6 | 0.5 | - | 1.2 | SMA | 28*24.2*13.5 |
| QPD2-0-3000-2-S | DC~3 | 2 | 6.8 | 5.6 | 0.3 | 3 | 1.2 | SMA | 28*28*10 |
| QPD2-0-3000-2-N | DC~3 | 2 | 6.8 | 5.6 | 0.3 | 3 | 1.2 | N | 38*32*20 |
| QPD2-0-4000-2-S | DC~4 | 2 | 6.8 | 5.6 | 0.3 | 3 | 1.2 | SMA | 28*28*10 |
| QPD2-0-6000-2-S | DC~6 | 2 | 6.8 | 5.6 | 0.3 | 3 | 1.3 | SMA | 28*28*10 |
| QPD2-0-6000-2-N | DC~6 | 2 | 6.8 | 5.6 | 0.3 | 3 | 1.3 | N | 38*32*20 |
| QPD2-0-8000-2-S | DC~8 | 2 | 7.2±0.5 | 6 | 0.5 | - | 1.4 | SMA | 25.4*22.2*16 |
| QPD2-0-10000-R5-S | DC~10 | 0.5 | 6.0±1.5 | - | 0.8 | - | 1.5 | SMA | 28*24.2*12 |
| QPD2-0-12400-R5-S | DC~12.4 | 0.5 | 6±1.5 | - | 0.8 | - | 1.5 | SMA | 28*24.2*12 |
| QPD2-0-18000-R5-S | DC~18 | 0.5 | 6±1.5 | - | 0.8 | - | 1.6 | SMA | 28*12*24.2 |
| QPD2-0-26500-2-S | DC~26.5 | 2 | 7.5 | 8 | 0.4 | 3 | 2.5 | SMA | 19.1*16.6*10 |
| QPD2-0-40000-2-K | DC~40 | 2 | 7.5 | 9 | 0.5 | 5 | 2.5 | 2.92mm | 17.5*15.8*10 |
| QPD2-0-50000-1-2 | DC~50 | 1 | 7.8 | 9 | 0.8 | 8 | 2.5 | 2.4mm | 17.5*15.8*10 |
| QPD2-0-67000-1-V | DC~67 | 1 | 8 | 9 | 0.9 | 10 | 2.5 | 1.85mm | 17.5*15.8*10 |
| QPD2-0.2-2-10-S | 0.0002~0.002 | 10 | 0.5 | 20 | 0.2 | 2 | 1.3 | SMA | 31.95*31.75*19 |
| QPD2-2-500-1-S | 0.002~0.5 | 1 | 0.6 | 20 | 0.3 | 2 | 1.3 | SMA | 28*28*12.7 |
| QPD2-5-1000-1-S | 0.005~1 | 1 | 1.0 | 18 | 0.3 | 3 | 1.3 | SMA | 28*28*12.7 |
| QPD2-5-1000-1-N | 0.005~1 | 1 | 1.0 | 17 | 0.3 | 3 | 1.25 | N | 56*34*22 |
| QPD2-5-1000-1-B | 0.005~1 | 1 | 1.0 | 17 | 0.3 | 3 | 1.25 | BNC | 56*34*22 |
| QPD2-10-500-K1-S | 0.01~0.5 | 100 | 0.9 | 15 | 0.2 | 5 | 1.6 | SMA | 60*80*22 |
| QPD2-10-1000-1-S | 0.01~1 | 1 | 1.0 | 20 | 0.3 | 3 | 1.3 | SMA | 28*28*12.7 |
| QPD2-30-300-2-N | 0.03~0.3 | 2 | 6.8 | 5.6 | 0.3 | 3 | 1.2 | N | 38*32*20 |
| QPD2-30-400-20-S | 0.03~0.4 | 20 | 1.8 | 20 | 0.2 | 2 | 1.2 | SMA | 250*80*12 |
| QPD2-30-406-K5-S | 0.03~0.406 | 500 | 0.5 | 20 | 0.1 | 3 | 1.35 | SMA | 60*80*22 |
| QPD2-30-512-K3-N | 0.03~0.512 | 300 | 1.4 | 20 | 0.2 | 2 | 1.25 | N | 295*224*22 |
| QPD2-30-512-30-S | 0.03~0.512 | 30 | 2.8 | 20 | 0.3 | 3 | 1.25 | SMA | - |
| QPD2-30-1000-20-S | 0.03~1 | 20 | 2.5 | 20 | 0.3 | 3 | 1.3 | SMA | 140*110*10 |
| QPD2-30-1000-20-N | 0.03~1 | 20 | 2.8 | 20 | 0.3 | 3 | 1.3 | N | 140*110*20 |
| QPD2-30-3000-2-N | 0.03~3 | 2 | 6.8 | 5.6 | 0.3 | - | 1.2 | N | 38*32*20 |

*Size: Exclude connectors

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|----------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|------------|
| QPD2-30-3000-2-S | 0.03~3 | 2 | 6.8 | 5.6 | 0.3 | 3 | 1.2 | SMA | 28*28*10 |
| QPD2-50-500-1-S | 0.05~0.5 | 1 | 0.6 | 18 | 0.3 | 3 | 1.3 | SMA | 36*34*12 |
| QPD2-50-500-1-N | 0.05~0.5 | 1 | 0.5 | 20 | 0.3 | 3 | 1.2 | N | 60*42*22 |
| QPD2-52-57-K6-N | 0.052~0.057 | 600 | 0.3 | 20 | 0.2 | 3 | 1.25 | N | 274*170*22 |
| QPD2-68-72-1-N | 0.068~0.072 | 1 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 56*34*22 |
| QPD2-68-72-30-N | 0.068~0.072 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | N | 106*82*22 |
| QPD2-68-72-K2-N | 0.068~0.072 | 200 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 283*110*22 |
| QPD2-70-2700-K1-N | 0.07~2.7 | 100 | 2.0 | 20 | 0.2 | 3 | 1.5 | N | 334*60*20 |
| QPD2-70-4200-20-S | 0.07~4.2 | 20 | 5.0 | 18 | 0.3 | 3 | 1.5 | SMA | 260*42*12 |
| QPD2-80-110-30-S | 0.08~0.11 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | SMA | 108*70*10 |
| QPD2-80-500-30-S | 0.08~0.5 | 30 | 0.8 | 19 | 0.2 | 2 | 1.25 | SMA | 110*62*12 |
| QPD2-80-2000-30-S | 0.08~2 | 30 | 1.8 | 19 | 0.2 | 2 | 1.25 | SMA | 110*62*12 |
| QPD2-80-2000-30-N | 0.08~2 | 30 | 1.8 | 20 | 0.2 | 2 | 1.25 | N | 110*62*20 |
| QPD2-80-4000-30-S | 0.08~4 | 30 | 2.5 | 16 | 0.3 | 3 | 1.5 | SMA | 156*44*12 |
| QPD2-100-200-K1-N | 0.1~0.2 | 100 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 168*90*22 |
| QPD2-100-350-30-S | 0.1~0.35 | 30 | 1.0 | 20 | ±0.2 | 2 | 1.25 | SMA | 98*70*14 |
| QPD2-100-400-30-N | 0.1~0.4 | 30 | 1.0 | 22 | 0.2 | 2 | 1.2 | N | 98*72*20 |
| QPD2-100-400-K2-N | 0.1~0.4 | 200 | 0.4 | 20 | 0.2 | 2 | 1.2 | N | 195*102*22 |
| QPD2-100-500-50-S | 0.1~0.5 | 50 | 0.5 | 20 | 0.2 | 3 | 1.25 | SMA | 130*80*14 |
| QPD2-100-500-50-N | 0.1~0.5 | 50 | 0.5 | 20 | 0.2 | 2 | 1.25 | N | 132*84*22 |
| QPD2-100-500-K3-N-20 | 0.1~0.5 | 300 | 0.5 | 20 | 0.2 | 2 | 1.25 | N | 262*84*22 |
| QPD2-100-500-K3-N-K1 | 0.1~0.5 | 300 | 0.5 | 20 | 0.2 | 2 | 1.25 | N | 262*84*24 |
| QPD2-100-500-K4-7 | 0.1~0.5 | 400 | 0.6 | 20 | 0.2 | 2 | 1.25 | 7/16DIN | 260*88*35 |
| QPD2-100-512-30-N | 0.1~0.512 | 30 | 0.7 | 23 | 0.2 | 2 | 1.3 | N | 98*60*22 |
| QPD2-100-550-K1-N | 0.1~0.55 | 100 | 0.5 | 20 | 0.2 | 2 | 1.2 | N | 226*80*22 |
| QPD2-100-600-30-S | 0.1~0.6 | 30 | 0.8 | 20 | 0.2 | 2 | 1.2 | SMA | 85*70*12 |
| QPD2-100-1000-30-S | 0.1~1 | 30 | 1.2 | 20 | 0.2 | 2 | 1.2 | SMA | 110*62*12 |
| QPD2-100-3000-30-S | 0.1~3 | 30 | 2.5 | 18 | 0.3 | 3 | 1.3 | SMA | 122*50*12 |
| QPD2-100-4000-30-S | 0.1~4 | 30 | 2.0 | 16 | 0.3 | 3 | 1.4 | SMA | 120*40*12 |
| QPD2-134-3700-30-N | 0.134~3.7 | 30 | 2.2 | 18 | 0.3 | 3 | 1.3 | N | 111*50*20 |
| QPD2-136-174-K3-N | 0.136~0.174 | 300 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 226*90*22 |
| QPD2-138-960-50-N | 0.138~0.96 | 50 | 0.6 | 18 | ±0.2 | 3 | 1.25 | N | 150*58*20 |
| QPD2-150-980-50-N | 0.15~0.98 | 50 | 0.6 | 20 | 0.3 | 3 | 1.3 | N | 150*78*20 |
| QPD2-200-1000-30-S | 0.2~1 | 30 | 0.6 | 20 | 0.2 | 2 | 1.25 | SMA | 82*48*12 |
| QPD2-200-2000-30-S | 0.2~2 | 30 | 0.8 | 20 | 0.2 | 3 | 1.25 | SMA | 85*44*12 |
| QPD2-200-6000-30-S | 0.2~6 | 30 | 2.2 | 18 | 0.3 | 3 | 1.25 | SMA | 123*38*12 |
| QPD2-200-6000-30-N | 0.2~6 | 30 | 2.2 | 18 | 0.3 | 3 | 1.25 | N | 123*46*20 |
| QPD2-200-6000-50-S | 0.2~6 | 50 | 6.0 | 18 | 0.2 | 3 | 1.4 | SMA | 290*44*15 |
| QPD2-210-240-50-N | 0.21~0.24 | 50 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 84*76*20 |
| QPD2-225-512-K1-N | 0.225~0.512 | 100 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 134*80*22 |
| QPD2-300-500-50-S | 0.3~0.5 | 50 | 0.3 | 20 | 0.2 | 2 | 1.2 | SMA | 85*50*14 |
| QPD2-300-600-30-S | 0.3~0.6 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | SMA | 53*52*12 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (\pm dB, max.) | Phase Bal. (\pm° , max.) | VSWR (max.) | Connector | Size (mm) |
|---------------------|-------------|-----------|---------------------------|----------------------|----------------------------------|----------------------------------|-------------|-----------|-----------------|
| QPD2-300-600-50-N | 0.3~0.6 | 50 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 85*50*20 |
| QPD2-300-900-30-S | 0.3~0.9 | 30 | 0.6 | 20 | 0.2 | 2 | 1.2 | SMA | 82*48*12 |
| QPD2-300-1000-20-S | 0.3~1 | 20 | 0.6 | 20 | 0.2 | 2 | 1.2 | SMA | 60*50*12 |
| QPD2-300-1000-20-N | 0.3~1 | 20 | 0.8 | 20 | 0.2 | 2 | 1.25 | N | 60*50*20 |
| QPD2-300-1000-K3-N | 0.3~1 | 300 | 0.3 | 20 | 0.2 | 2 | 1.25 | N | 195*56*20 |
| QPD2-300-1800-K3-N | 0.3~1.8 | 300 | 0.6 | 18 | 0.2 | 2 | 1.3 | N | 110*78*22 |
| QPD2-300-2000-50-N | 0.3~2 | 50 | 0.8 | 18 | 0.2 | 3 | 1.3 | N | 72*70*20 |
| QPD2-336-366-30-N | 0.336~0.366 | 30 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 80*52*20 |
| QPD2-350-520-K15-N | 0.35~0.52 | 150 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 90*70*22 |
| QPD2-350-3800-30-S | 0.35~3.8 | 30 | 1.2 | 20 | 0.2 | 3 | 1.25 | SMA | 62*42*12 |
| QPD2-350-3800-30-N | 0.35~3.8 | 30 | 1.2 | 20 | 0.2 | 3 | 1.25 | N | 62*50*20 |
| QPD2-350-6000-30-S | 0.35~6 | 30 | 1.5 | 20 | 0.3 | 3 | 1.25 | SMA | 82*38*12 |
| QPD2-380-410-K3-N | 0.38~0.41 | 300 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 152*80*22 |
| QPD2-380-460-K1-7 | 0.38~0.46 | 100 | 0.3 | 20 | 0.2 | 2 | 1.2 | 7/16DIN | 95*78*30 |
| QPD2-380-470-K3-N | 0.38~0.47 | 300 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 144*80*22 |
| QPD2-380-8000-30-S | 0.38~8 | 30 | 1.6 | 18 | 0.3 | 3 | 1.25 | SMA | 78*28*10 |
| QPD2-400-450-50-K1 | 0.4~0.45 | 100 | 0.4 | 20 | 0.2 | 2 | 1.2 | N | 70*68*20 |
| QPD2-400-470-30-S | 0.4~0.47 | 30 | 0.5 | 20 | 0.2 | 2 | 1.2 | SMA | 54*52*12 |
| QPD2-400-1000-K2-N | 0.4~1 | 200 | 0.4 | 18 | 0.2 | 2 | 1.25 | N | 126*58*22 |
| QPD2-400-1000-K3-N | 0.4~1 | 300 | 0.4 | 18 | 0.2 | 2 | 1.25 | N | 126*58*22 |
| QPD2-400-2700-30-S | 0.4~2.7 | 30 | 0.8 | 20 | 0.2 | 3 | 1.2 | SMA | 56*50*12 |
| QPD2-400-6000-30-S | 0.4~6 | 30 | 1.2 | 20 | 0.2 | 3 | 1.3 | SMA | 73*38*12 |
| QPD2-400-6000-30-N | 0.4~6 | 30 | 1.4 | 20 | 0.2 | 3 | 1.3 | N | 73*50*20 |
| QPD2-400-7500-20-S | 0.4~7.5 | 20 | 1.5 | 20 | 0.3 | 3 | 1.35 | SMA | 75*28*10 |
| QPD2-400-8000-30-S | 0.4~8 | 30 | 1.5 | 18 | 0.3 | 3 | 1.3 | SMA | 74*35*12 |
| QPD2-400-18000-20-S | 0.4~18 | 20 | 1.2 | 12 | 0.3 | 5 | 1.7 | SMA | 157*26*10 |
| QPD2-430-950-30-S | 0.43~0.95 | 30 | 0.3 | 22 | 0.2 | 2 | 1.2 | SMA | 84*50*12 |
| QPD2-500-1000-30-S | 0.5~1 | 30 | 0.3 | 20 | 0.2 | 2 | 1.2 | SMA | 56*34*13 |
| QPD2-500-1000-30-N | 0.5~1 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | N | 52*41*20 |
| QPD2-500-2000-20-S | 0.5~2 | 20 | 0.5 | 20 | 0.2 | 2 | 1.3 | SMA | 54*28*12 |
| QPD2-500-3000-30-S | 0.5~3 | 30 | 0.6 | 22 | 0.2 | 3 | 1.25 | SMA | 48*40*12 |
| QPD2-500-3000-30-N | 0.5~3 | 30 | 0.6 | 20 | 0.2 | 3 | 1.25 | N | 56*50*20 |
| QPD2-500-4000-30-S | 0.5~4 | 30 | 0.8 | 20 | 0.2 | 3 | 1.25 | SMA | 46*42*12 |
| QPD2-500-6000-30-S | 0.5~6 | 30 | 1.1 | 18 | 0.2 | 3 | 1.25 | SMA | 48*36*12 |
| QPD2-500-6000-30-N | 0.5~6 | 30 | 1.2 | 20 | 0.2 | 3 | 1.25 | N | 56*50*20 |
| QPD2-500-8000-30-S | 0.5~8 | 30 | 1.5 | 20 | 0.2 | 3 | 1.25 | SMA | 74*35*12 |
| QPD2-500-8000-30-N | 0.5~8 | 30 | 1.8 | 20 | 0.2 | 3 | 1.25 | N | 74*38*20 |
| QPD2-500-18000-20-S | 0.5~18 | 20 | 1.2 | 16 | 0.3 | 5 | 1.6 | SMA | 157*26*10 |
| QPD2-500-18000-20-N | 0.5~18 | 20 | 1.5 | 16 | 0.3 | 5 | 1.6 | N | 157*48*20 |
| QPD2-500-26500-20-S | 0.5~26.5 | 20 | 2.4 | 17 | 0.4 | 4 | 1.6 | SMA | 149.2*26.4*12.7 |
| QPD2-500-40000-20-K | 0.5~40 | 20 | 3.5 | 16 | 0.5 | 6 | 1.6 | 2.92mm | 149.2*26.4*12.7 |
| QPD2-555-3400-30-N | 0.555~3.4 | 30 | 0.6 | 20 | \pm 0.2 | 2 | 1.2 | N | 64*54*20 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (\pm dB, max.) | Phase Bal. (\pm° , max.) | VSWR (max.) | Connector | Size (mm) |
|-----------------------|-------------|-----------|---------------------------|----------------------|----------------------------------|----------------------------------|-------------|-----------|--------------|
| QPD2-600-2000-30-S | 0.6~2 | 30 | 0.4 | 20 | 0.2 | 3 | 1.2 | SMA | 48*44*12 |
| QPD2-600-6000-30-S | 0.6~6 | 30 | 1.0 | 20 | \pm 0.2 | 2 | 1.25 | SMA | 45*36*12 |
| QPD2-600-6000-30-N | 0.6~6 | 30 | 1.0 | 20 | 0.2 | 3 | 1.25 | N | 80*48*20 |
| QPD2-700-2700-30-S | 0.7~2.7 | 30 | 0.5 | 20 | 0.2 | 2 | 1.2 | SMA | 42*38*14 |
| QPD2-700-2700-K2-N | 0.7~2.7 | 200 | 0.6 | 18 | \pm 0.2 | 3 | 1.25 | N | 82*62*22 |
| QPD2-700-4000-30-S | 0.7~4 | 30 | 0.6 | 20 | \pm 0.2 | 3 | 1.25 | SMA | 42*40*12 |
| QPD2-700-4000-30-N | 0.7~4 | 30 | 0.6 | 20 | 0.2 | 3 | 1.25 | N | 50*45*20 |
| QPD2-700-4700-30-N | 0.7~4.7 | 30 | 1.0 | 20 | 0.2 | 3 | 1.25 | N | 56*50*20 |
| QPD2-700-5000-30-N | 0.7~5 | 30 | 1.0 | 18 | 0.2 | 4 | 1.3 | N | 70*54*22 |
| QPD2-700-6000-30-S | 0.7~6 | 30 | 1.0 | 20 | 0.2 | 3 | 1.25 | SMA | 45*36*12 |
| QPD2-700-9000-20-S | 0.7~9 | 20 | 1.2 | 18 | 0.2 | 3 | 1.25 | SMA | 55*28*10 |
| QPD2-800-1880-K2-N | 0.8~1.88 | 200 | 0.3 | 25 | 0.2 | 2 | 1.25 | N | 66*68*22 |
| QPD2-800-2500-K2-N | 0.8~2.5 | 200 | 0.3 | 20 | 0.2 | 3 | 1.25 | N | 66*47*22 |
| QPD2-800-2500-K2-7 | 0.8~2.5 | 200 | 0.3 | 20 | 0.2 | 3 | 1.25 | 7/16DIN | 72*55*28 |
| QPD2-800-2500-30-S | 0.8~2.5 | 30 | 0.5 | 20 | 0.2 | 2 | 1.2 | SMA | 38*42*14 |
| QPD2-800-2700-30-S | 0.8~2.7 | 30 | 0.5 | 22 | 0.2 | 3 | 1.2 | SMA | 35*43*14 |
| QPD2-800-2700-50-N | 0.8~2.7 | 50 | 0.5 | 20 | 0.2 | 3 | 1.25 | N | 45.7*75*18.7 |
| QPD2-800-3000-30-S | 0.8~3 | 30 | 0.5 | 20 | 0.2 | 3 | 1.25 | SMA | 43*35*14 |
| QPD2-800-3000-30-N | 0.8~3 | 30 | 0.6 | 20 | 0.2 | 3 | 1.25 | N | 50*43*20 |
| QPD2-800-3800-K2-7 | 0.8~3.8 | 200 | 0.9 | 20 | 0.2 | 3 | 1.3 | 7/16DIN | 95*58*30 |
| QPD2-800-4000-30-S | 0.8~4 | 30 | 0.8 | 22 | 0.2 | 3 | 1.2 | SMA | 45*36*12 |
| QPD2-950-2150-30-S | 0.95~2.15 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | SMA | 28*27.8*11.1 |
| QPD2-950-2150-30-S-DC | 0.95~2.15 | 30 | 0.3 | 20 | 0.2 | 2 | 1.2 | SMA | 56*46*14 |
| QPD2-950-2150-30-N-DC | 0.95~2.15 | 30 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 56*46*20.5 |
| QPD2-960-9000-10-S | 0.96~9 | 10 | 1.2 | 15 | 0.6 | 10 | 1.6 | SMA | 99*24*10 |
| QPD2-1000-2000-30-S | 1~2 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | SMA | 27.8*28*11.1 |
| QPD2-1000-2000-30-N | 1~2 | 30 | 0.35 | 20 | 0.2 | 2 | 1.2 | N | 43*29*20 |
| QPD2-1000-2500-30-N | 1~2.5 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | N | 56*46*20.5 |
| QPD2-1000-3000-30-S | 1~3 | 30 | 0.5 | 20 | 0.2 | 3 | 1.2 | SMA | 43*35*14 |
| QPD2-1000-4000-30-S | 1~4 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | SMA | 28*28*10 |
| QPD2-1000-4000-50-S | 1~4 | 50 | 0.8 | 20 | 0.2 | 3 | 1.25 | SMA | 64*40*14 |
| QPD2-1000-4000-K2-N | 1~4 | 200 | 1.2 | 16 | 0.3 | 4 | 1.5 | N | 80*60*24 |
| QPD2-1000-8000-30-S | 1~8 | 30 | 0.8 | 20 | 0.2 | 3 | 1.25 | SMA | 41*28*10 |
| QPD2-1000-9000-30-S | 1~9 | 30 | 1.4 | 20 | 0.2 | 3 | 1.25 | SMA | 52*28*10 |
| QPD2-1000-9000-30-N | 1~9 | 30 | 1.5 | 20 | 0.2 | 3 | 1.25 | N | 52*50*20 |
| QPD2-1000-12000-20-S | 1~12 | 20 | 1.0 | 18 | 0.3 | 4 | 1.4 | SMA | 99*24*10 |
| QPD2-1000-18000-20-S | 1~18 | 20 | 1.2 | 16 | 0.3 | 3 | 1.4 | SMA | 99*24*10 |
| QPD2-1000-26500-20-S | 1~26.5 | 20 | 1.2 | 16 | 0.5 | 6 | 1.7 | SMA | 81*26*10 |
| QPD2-1000-26500-20-K | 1~26.5 | 20 | 1.2 | 16 | 0.5 | 6 | 1.7 | 2.92mm | 81*26*10 |
| QPD2-1000-40000-20-K | 1~40 | 20 | 2.2 | 15 | 0.5 | 8 | 2 | 2.92mm | 78*26*10 |
| QPD2-1100-1700-30-S | 1.1~1.7 | 30 | 0.3 | 20 | 0.2 | 2 | 1.2 | SMA | 28*28*10 |
| QPD2-1100-1700-30-B | 1.1~1.7 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | BNC | 56*46*20.5 |

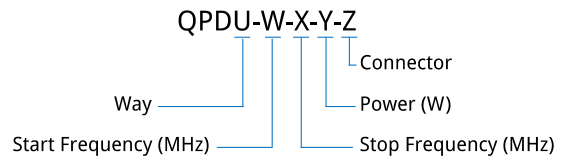
*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (\pm dB, max.) | Phase Bal. (\pm° , max.) | VSWR (max.) | Connector | Size (mm) |
|----------------------|-------------|-----------|---------------------------|----------------------|----------------------------------|----------------------------------|-------------|-----------|------------------|
| QPD2-1300-2400-30-S | 1.3~2.4 | 30 | 0.4 | 22 | 0.2 | 2 | 1.2 | SMA | 42*28*12 |
| QPD2-1350-1450-20-S | 1.35~1.45 | 20 | 0.3 | 30 | 0.2 | 2 | 1.2 | SMA | 28*28*10 |
| QPD2-1500-18000-20-S | 1.5~18 | 20 | 1.2 | 16 | 0.3 | 3 | 1.4 | SMA | 99*24*10 |
| QPD2-1700-5900-30-N | 1.7~5.9 | 30 | 0.5 | 22 | 0.2 | 3 | 1.2 | N | 38*34*20 |
| QPD2-1700-6000-50-S | 1.7~6 | 50 | 0.5 | 18 | 0.2 | 2 | 1.4 | SMA | 45.5*26.4*12.7 |
| QPD2-1700-9000-30-S | 1.7~9 | 30 | 0.6 | 18 | 0.2 | 3 | 1.3 | SMA | 34*28*10 |
| QPD2-2000-2300-K1-S | 2~2.3 | 100 | 0.4 | 20 | 0.2 | 2 | 1.25 | SMA | 31.95*31.75*19.0 |
| QPD2-2000-2400-30-N | 2~2.4 | 30 | 0.3 | 20 | 0.2 | 2 | 1.25 | N | 43*29*20 |
| QPD2-2000-4000-30-S | 2~4 | 30 | 0.5 | 20 | 0.2 | 2 | 1.25 | SMA | 36*34*12 |
| QPD2-2000-4000-30-N | 2~4 | 30 | 0.4 | 20 | 0.2 | 2 | 1.25 | N | 43*29*20 |
| QPD2-2000-4000-125-N | 2~4 | 125 | 0.3 | 20 | 0.2 | 3 | 1.2 | N | 72*50*20 |
| QPD2-2000-4000-K3-N | 2~4 | 300 | 0.5 | 18 | 0.2 | 2 | 1.3 | N | 70*52*22 |
| QPD2-2000-6000-30-S | 2~6 | 30 | 0.5 | 20 | 0.2 | 3 | 1.25 | SMA | 28*28*10 |
| QPD2-2000-6000-30-N | 2~6 | 30 | 0.6 | 20 | 0.2 | 3 | 1.25 | N | 43*29*20 |
| QPD2-2000-8000-30-S | 2~8 | 30 | 0.6 | 20 | 0.2 | 3 | 1.3 | SMA | 28*28*10 |
| QPD2-2000-8000-30-N | 2~8 | 30 | 0.8 | 18 | 0.2 | 3 | 1.3 | N | 43*29*20 |
| QPD2-2000-9000-30-S | 2~9 | 30 | 0.6 | 20 | 0.2 | 3 | 1.25 | SMA | 34*28*10 |
| QPD2-2000-12000-20-S | 2~12 | 20 | 1.0 | 18 | 0.3 | 4 | 1.4 | SMA | 47*24*10 |
| QPD2-2000-18000-20-S | 2~18 | 20 | 1.0 | 18 | 0.3 | 4 | 1.4 | SMA | 47*24*10 |
| QPD2-2000-40000-20-K | 2~40 | 20 | 1.6 | 18 | 0.2 | 4 | 1.6 | 2.92mm | 78*26*10 |
| QPD2-2400-2500-K3-S | 2.4~2.5 | 300 | 0.3 | 30 | 0.2 | 2 | 1.25 | SMA | 70*50*14 |
| QPD2-2400-2500-K2-S | 2.4~2.5 | 200 | 0.3 | 30 | 0.2 | 2 | 1.25 | SMA | 70*50*14 |
| QPD2-2500-4000-K2-N | 2.5~4 | 200 | 0.6 | 18 | 0.2 | 3 | 1.35 | N | 58*52*22 |
| QPD2-3000-6000-30-S | 3~6 | 30 | 0.4 | 22 | 0.2 | 2 | 1.2 | SMA | 28*28*10 |
| QPD2-3000-8000-30-S | 3~8 | 30 | 0.6 | 22 | 0.1 | 1 | 1.2 | SMA | 28*28*10 |
| QPD2-3000-13000-5-S | 3~13 | 5 | 1.2 | 18 | 0.3 | 5 | 1.5 | SMA | 47*24*10 |
| QPD2-3400-3800-30-N | 3.4~3.8 | 30 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 54*40*20 |
| QPD2-3400-3800-K1-N | 3.4~3.8 | 100 | 0.3 | 20 | 0.2 | 2 | 1.2 | N | 62*54*20 |
| QPD2-4000-5000-30-S | 4~5 | 30 | 0.4 | 22 | 0.2 | 2 | 1.25 | SMA | 28*28*10 |
| QPD2-4000-6000-30-S | 4~6 | 30 | 0.4 | 20 | 0.2 | 2 | 1.2 | SMA | 28*28*10 |
| QPD2-4000-8000-30-S | 4~8 | 30 | 0.5 | 20 | 0.2 | 2 | 1.25 | SMA | 28*28*10 |
| QPD2-4000-8000-30-N | 4~8 | 30 | 0.5 | 20 | 0.2 | 2 | 1.25 | N | 43*29*20 |
| QPD2-4000-12000-20-S | 4~12 | 20 | 0.8 | 18 | 0.2 | 3 | 1.25 | SMA | 38*28*10 |
| QPD2-4900-5900-30-S | 4.9~5.9 | 30 | 0.4 | 20 | 0.2 | 2 | 1.25 | SMA | 36*34*12 |
| QPD2-5000-6000-K2-N | 5~6 | 200 | 0.5 | 20 | 0.2 | 3 | 1.25 | N | 50*36*20 |
| QPD2-5000-12000-20-S | 5~12 | 20 | 0.6 | 18 | 0.3 | 3 | 1.25 | SMA | 28*28*10 |
| QPD2-5150-5850-50-N | 5.15~5.85 | 50 | 0.5 | 20 | 0.2 | 3 | 1.25 | N | 44*36*20 |
| QPD2-5150-5850-K2-N | 5.15~5.85 | 200 | 0.6 | 20 | 0.2 | 3 | 1.25 | N | 52*50*20 |
| QPD2-5200-5900-K1-S | 5.2~5.9 | 100 | 0.4 | 20 | 0.2 | 2 | 1.25 | SMA | 60*45*15 |
| QPD2-5700-5900-30-S | 5.7~5.9 | 30 | 0.4 | 22 | 0.2 | 2 | 1.2 | SMA | 28*28*10 |
| QPD2-6000-18000-20-S | 6~18 | 20 | 0.8 | 18 | 0.3 | 4 | 1.4 | SMA | 30*24*10 |
| QPD2-6000-18000-K1-S | 6~18 | 100 | 1.0 | 15 | 0.3 | 4 | 1.4 | SMA | 35*30*10 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (\pm dB, max.) | Phase Bal. (\pm° , max.) | VSWR (max.) | Connector | Size (mm) |
|-----------------------|-------------|-----------|---------------------------|----------------------|----------------------------------|----------------------------------|-------------|-----------|----------------|
| QPD2-6000-40000-20-K | 6~40 | 20 | 1.4 | 16 | 0.5 | 5 | 1.7 | 2.92mm | 26*19*10 |
| QPD2-7000-8500-30-S | 7~8.5 | 30 | 0.4 | 20 | 0.2 | 2 | 1.25 | SMA | 28*28*10 |
| QPD2-7000-9000-30-S | 7~9 | 30 | 0.3 | 20 | 0.2 | 2 | 1.25 | SMA | 28*28*10 |
| QPD2-8000-12000-20-S | 8~12 | 20 | 0.5 | 18 | 0.2 | 3 | 1.25 | SMA | 28*28*10 |
| QPD2-8000-30000-20-K | 8~30 | 20 | 1.2 | 16 | 0.4 | 4 | 1.5 | 2.92mm | 26*19*10 |
| QPD2-10000-43000-20-K | 10~43 | 20 | 1.3 | 12 | 0.4 | 5 | 1.6 | 2.92mm | 26*19*10 |
| QPD2-10000-43300-20-K | 10~43.3 | 20 | 1.6 | 14 | 0.5 | 6 | 1.6 | 2.92mm | 26*19*10 |
| QPD2-10700-12750-20-S | 10.7~12.75 | 20 | 0.6 | 18 | 0.3 | 3 | 1.3 | SMA | 28*28*10 |
| QPD2-12400-13650-20-S | 12.4~13.65 | 20 | 0.6 | 18 | 0.2 | 3 | 1.3 | SMA | 30*24*10 |
| QPD2-13500-15000-20-N | 13.5~15 | 20 | 0.4 | 18 | 0.2 | 3 | 1.25 | N | 43*29*20 |
| QPD2-13500-15000-20-S | 13.5~15 | 20 | 0.5 | 20 | 0.2 | 3 | 1.25 | SMA | 28*28*10 |
| QPD2-17000-31000-20-K | 17~31 | 20 | 1.0 | 16 | 0.4 | 5 | 1.5 | 2.92mm | 26*19*10 |
| QPD2-18000-26500-20-K | 18~26.5 | 20 | 0.6 | 16 | 0.4 | 4 | 1.5 | 2.92mm | 26*19*10 |
| QPD2-18000-40000-20-K | 18~40 | 20 | 1.0 | 16 | 0.4 | 5 | 1.5 | 2.92mm | 26*19*10 |
| QPD2-20000-22000-20-K | 20~22 | 20 | 1.0 | 18 | 0.4 | 4 | 1.4 | 2.92mm | 26*19*10 |
| QPD2-20000-40000-20-K | 20~40 | 20 | 1.2 | 16 | 0.4 | 5 | 1.5 | 2.92mm | 26*19*10 |
| QPD2-23100-23300-10-K | 23.1~23.3 | 10 | 0.8 | 18 | 0.3 | 3 | 1.5 | 2.92mm | 26*19*10 |
| QPD2-24000-43500-20-K | 24~43.5 | 20 | 1.3 | 16 | 0.4 | 5 | 1.7 | 2.92mm | 26*19*10 |
| QPD2-24250-52600-20-V | 24.25~52.6 | 20 | 1.5 | 17 | 0.5 | 5 | 1.7 | 1.85mm | 25.4*15.2*12.7 |
| QPD2-25500-25600-1-K | 25.5~25.6 | 1 | 0.8 | 18 | 0.3 | 3 | 1.5 | 2.92mm | 26*19*10 |
| QPD2-26000-31000-20-K | 26~31 | 20 | 1.0 | 16 | 0.4 | 4 | 1.5 | 2.92mm | 26*19*10 |
| QPD2-26000-40000-20-K | 26~40 | 20 | 1.2 | 16 | 0.4 | 4 | 1.5 | 2.92mm | 26*19*10 |
| QPD2-27000-52000-10-2 | 27~52 | 10 | 1.8 | 14 | 0.6 | 6 | 1.8 | 2.4mm | 26*19*10 |

*Size: Exclude connectors.



Environmental

Operation Temperature: -35~+75°C

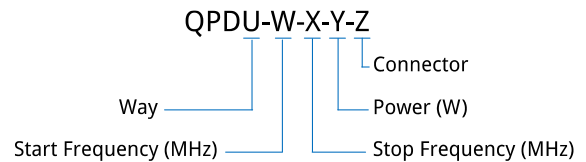
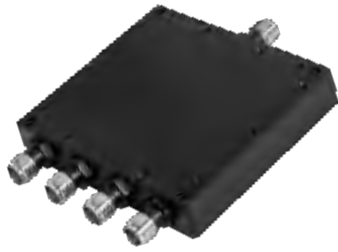
Impedance: 50Ω

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|---------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|---------------|
| QPD3-0-3000-2-S | DC-3 | 2 | 9.5±0.6 | 9.5 | 0.6 | - | 1.25 | SMA | 25.4*22.2*16 |
| QPD3-0-6000-2-S | DC-6 | 2 | 11.0 | 9 | 0.7 | 10 | 1.4 | SMA | 29.3*25.4*16 |
| QPD3-0-8000-2-S | DC-8 | 2 | 13.4 | 8.9 | 0.8 | 8 | 1.6 | SMA | 45*34*12.5 |
| QPD3-5-1000-50-S | 0.005~1 | 50 | 1 | 12 | 0.3 | 5 | 1.5 | SMA | 60*80*22 |
| QPD3-10-500-1-S | 0.01~0.5 | 1 | 1.4 | 16 | 0.6 | 6 | 1.6 | SMA | 60*48*12 |
| QPD3-80-300-20-S | 0.08~0.3 | 20 | 1.0 | 18 | 0.4 | 5 | 1.3 | SMA | 186*102*12 |
| QPD3-100-200-K1-N | 0.1~0.2 | 100 | 0.5 | 18 | 0.3 | 3 | 1.25 | N | 305*120*22 |
| QPD3-100-350-30-S | 0.1~0.35 | 30 | 0.8 | 20 | 0.4 | 4 | 1.25 | SMA | 240*108*14 |
| QPD3-100-400-30-N | 0.1~0.4 | 30 | 0.6 | 18 | 0.5 | 5 | 1.3 | N | 228*108*20 |
| QPD3-100-400-50-N | 0.1~0.4 | 50 | 0.6 | 18 | 0.6 | 5 | 1.3 | N | 228*165*20 |
| QPD3-100-1000-30-S | 0.1~1 | 30 | 1.8 | 18 | 0.8 | 8 | 1.35 | SMA | 186*72*14 |
| QPD3-114-178-K3-N | 0.114~0.178 | 300 | 1.0 | 20 | 0.5 | 6 | 1.3 | N | 280*172*22 |
| QPD3-134-3700-30-N | 0.134~3.7 | 30 | 3.8 | 18 | 0.9 | 10 | 1.5 | N | 280*68*20 |
| QPD3-136-174-K3-N | 0.136~0.174 | 300 | 0.8 | 20 | 0.3 | 3 | 1.25 | N | 326*172*22 |
| QPD3-138-960-50-N | 0.138~0.96 | 50 | 1.2 | 18 | 0.6 | 6 | 1.3 | N | 148*115*20 |
| QPD3-200-250-30-S | 0.2~0.25 | 30 | 1.0 | 20 | 0.4 | 4 | 1.25 | SMA | 164*64*14 |
| QPD3-200-2000-30-S | 0.2~2 | 30 | 1.8 | 20 | 0.8 | 8 | 1.3 | SMA | 143*60*12 |
| QPD3-225-2500-20-S | 0.225~2.5 | 20 | 1.8 | 20 | 0.8 | 8 | 1.4 | SMA | 136*56*12 |
| QPD3-336-366-30-N | 0.336~0.366 | 30 | 0.6 | 20 | 0.3 | 3 | 1.25 | N | 195*74*20 |
| QPD3-380-470-K3-N | 0.38~0.47 | 300 | 0.8 | 20 | 0.3 | 3 | 1.25 | N | 164*155*22 |
| QPD3-380-40000-20-K | 0.38~40 | 20 | 4.5 | 17 | 0.9 | 10 | 1.7 | 2.92mm | 254*40.6*12.7 |
| QPD3-400-1000-30-S | 0.4~1 | 30 | 0.6 | 20 | 0.4 | 5 | 1.3 | SMA | 112*90*14 |
| QPD3-400-2000-30-S | 0.4~2 | 30 | 1.8 | 20 | 0.8 | 10 | 1.3 | SMA | 100*70*12 |
| QPD3-400-6000-20-S | 0.4~6 | 20 | 2.8 | 18 | 0.8 | 8 | 1.4 | SMA | 130*50*12 |
| QPD3-400-6000-20-N | 0.4~6 | 20 | 2.8 | 18 | 0.8 | 8 | 1.5 | N | 130*74*20 |
| QPD3-433-30-30-N | 0.433 | 30 | 0.5 | 22 | 0.3 | 3 | 1.2 | N | 100*70*20 |
| QPD3-440-900-60-N | 0.44~0.9 | 60 | 0.8 | 18 | 0.4 | 6 | 1.35 | N | 100*100*20 |
| QPD3-480-500-30-N | 0.48~0.5 | 30 | 0.3 | 20 | 0.3 | 3 | 1.2 | N | 90*78*20 |
| QPD3-480-500-50-N | 0.48~0.5 | 50 | 0.3 | 20 | 0.3 | 3 | 1.2 | N | 100*90*20 |
| QPD3-500-700-K15-S | 0.5~0.7 | 150 | 0.6 | 18 | 0.5 | 6 | 1.3 | SMA | 108*86*14 |
| QPD3-500-3000-30-S | 0.5~3 | 30 | 1.0 | 18 | 0.5 | 5 | 1.3 | SMA | 90*48*12 |
| QPD3-500-6000-30-S | 0.5~6 | 30 | 2.8 | 18 | 0.8 | 8 | 1.5 | SMA | 130*50*12 |
| QPD3-500-6000-30-N | 0.5~6 | 30 | 2.8 | 18 | 0.8 | 8 | 1.5 | N | 130*74*20 |
| QPD3-500-8000-20-S | 0.5~8 | 20 | 2.2 | 17 | 1 | 10 | 1.5 | SMA | 160*52*12 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (\pm dB, max.) | Phase Bal. (\pm° , max.) | VSWR (max.) | Connector | Size (mm) |
|-----------------------|-------------|-----------|---------------------------|----------------------|----------------------------------|----------------------------------|-------------|-----------|--------------|
| QPD3-555-3400-30-N | 0.555~3.4 | 30 | 1.0 | 20 | 0.7 | 7 | 1.25 | N | 136*78*20 |
| QPD3-600-6000-30-S | 0.6~6 | 30 | 2.6 | 20 | 0.8 | 8 | 1.5 | SMA | 130*50*12 |
| QPD3-600-6000-30-N | 0.6~6 | 30 | 2.8 | 20 | 0.8 | 8 | 1.5 | N | 130*74*20 |
| QPD3-698-2700-50-N | 0.698~2.7 | 50 | 0.6 | 20 | 0.4 | 4 | 1.25 | N | 77*94*19 |
| QPD3-698-6000-30-N | 0.698~6 | 30 | 2.0 | 18 | 0.8 | 8 | 1.5 | N | 130*74*18 |
| QPD3-700-1100-10-S | 0.7~1.1 | 10 | 1.0 | 20 | 0.6 | - | 1.35 | SMA | 86.5*45*12 |
| QPD3-700-4000-30-S | 0.7~4 | 30 | 1.2 | 20 | 0.5 | 5 | 1.3 | SMA | 94*50*12 |
| QPD3-700-4000-30-N | 0.7~4 | 30 | 1.4 | 20 | 0.5 | 5 | 1.3 | N | 94*74*20 |
| QPD3-700-5000-30-N | 0.7~5 | 30 | 1.5 | 18 | 0.8 | 8 | 1.4 | N | 138*74*22 |
| QPD3-800-2500-K2-N | 0.8~2.5 | 200 | 0.5 | 20 | 0.3 | 4 | 1.2 | N | 81*45*22 |
| QPD3-800-2500-K2-7 | 0.8~2.5 | 200 | 0.5 | 20 | 0.3 | 4 | 1.2 | 7/16DIN | 89*53*28 |
| QPD3-1000-2000-30-S | 1~2 | 30 | 0.8 | 20 | 0.4 | 4 | 1.25 | SMA | 71*50*14 |
| QPD3-1000-3000-30-N | 1~3 | 30 | 1.2 | 20 | 0.5 | 5 | 1.3 | N | 94*72*20 |
| QPD3-1100-1700-30-S | 1.1~1.7 | 30 | 0.4 | 20 | 0.4 | 4 | 1.25 | SMA | 68*50*10 |
| QPD3-1100-1700-30-T | 1.1~1.7 | 30 | 0.5 | 20 | 0.4 | 4 | 1.25 | TNC | 72*72*20 |
| QPD3-2000-3000-20-S | 2~3 | 20 | 0.5 | 18 | 0.5 | 5 | 1.3 | SMA | 55*50*12 |
| QPD3-2000-4000-20-S | 2~4 | 20 | 0.5 | 18 | 0.5 | 5 | 1.3 | SMA | 55*50*12 |
| QPD3-2000-8000-20-S | 2~8 | 20 | 1.0 | 18 | 0.5 | 5 | 1.4 | SMA | 66.5*37.5*10 |
| QPD3-2000-8000-20-N | 2~8 | 20 | 1.2 | 18 | 0.5 | 6 | 1.4 | N | 76*70*20 |
| QPD3-2000-9000-30-S | 2~9 | 30 | 1.5 | 18 | 0.5 | 5 | 1.5 | SMA | 66.5*37.5*10 |
| QPD3-2000-18000-20-S | 2~18 | 20 | 1.6 | 16 | 0.6 | 10 | 1.7 | SMA | 70*39*10 |
| QPD3-2400-2500-20-S | 2.4~2.5 | 20 | 0.8 | 30 | 0.4 | 4 | 1.25 | SMA | 48*60*10 |
| QPD3-3400-3800-30-N | 3.4~3.8 | 30 | 0.5 | 20 | 0.5 | 5 | 1.25 | N | 78*68*20 |
| QPD3-6000-18000-20-S | 6~18 | 20 | 1.2 | 18 | 0.6 | 6 | 1.5 | SMA | 51*38*10 |
| QPD3-7000-8000-20-S | 7~8 | 20 | 1.0 | 20 | 0.4 | 4 | 1.3 | SMA | 66.5*37.5*10 |
| QPD3-8000-12000-20-S | 8~12 | 20 | 1.0 | 18 | 0.5 | 5 | 1.4 | SMA | 51*38*10 |
| QPD3-9000-11000-20-S | 9~11 | 20 | 0.8 | 18 | 0.5 | 5 | 1.4 | SMA | 51*38*10 |
| QPD3-16000-18000-20-S | 16~18 | 20 | 0.8 | 18 | 0.5 | 5 | 1.4 | SMA | 51*38*10 |
| QPD3-26000-31000-20-K | 26~31 | 20 | 1.5 | 16 | 0.6 | 6 | 1.5 | 2.92mm | 39*25.4*10 |

*Size: Exclude connectors.



Environmental

Operation Temperature: -35~+75°C

Impedance: 50Ω

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|----------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|--------------|
| QPD4-0-1000-2-S | DC~1 | 2 | 12.8 | 11.8 | 0.5 | 8 | 1.2 | SMA | 25.4*22.2*16 |
| QPD4-0-3000-2-S | DC~3 | 2 | 13.0 | 12 | 0.6 | 10 | 1.3 | SMA | 25.4*22.2*16 |
| QPD4-0-4000-2-S | DC~4 | 2 | 13.5 | 11 | 0.7 | 15 | 1.4 | SMA | 25.4*22.2*16 |
| QPD4-0-6000-2-S | DC~6 | 2 | 14 | 11.6 | 0.4 | 4 | 1.25 | SMA | 64*40*12.5 |
| QPD4-0-6000-2-N | DC~6 | 2 | 15 | 11.5 | 0.5 | 5 | 1.25 | N | 100*50*20 |
| QPD4-0-8000-2-S | DC~8 | 2 | 12±1.5 | 12 | 0.8 | - | 1.5 | SMA | 25.4*22.2*16 |
| QPD4-0-10000-R5-S | DC~10 | 0.5 | 12±2.0 | - | 1 | - | 1.5 | SMA | 54*32*12 |
| QPD4-0-18000-R5-S | DC~18 | 0.5 | 12±2.8 | - | - | - | 1.8 | SMA | 54*32*12 |
| QPD4-0-26500-1-S | DC~26.5 | 1 | 15.6 | 9 | 0.8 | - | 2.6 | SMA | 34*55*10 |
| QPD4-0-40000-1-K | DC~40 | 1 | 15.6 | 8 | 0.8 | - | 2.6 | 2.92mm | 33.8*50.5*10 |
| QPD4-5-500-30-S | 0.005~0.5 | 30 | 5.0 | 20 | 0.3 | 4 | 1.3 | SMA | 418*170*14 |
| QPD4-5-1000-R5-N | 0.005~1 | 0.5 | 2.0 | 16 | 0.8 | 5 | 1.5 | N | 108*40*22 |
| QPD4-10-100-R5-S | 0.01~0.1 | 0.5 | 1.2 | 18 | 0.4 | 4 | 1.4 | SMA | 108*40*12 |
| QPD4-10-100-R5-B | 0.01~0.1 | 0.5 | 1.5 | 18 | 0.6 | 4 | 1.3 | BNC | 108*40*22 |
| QPD4-10-500-K1-S | 0.01~0.5 | 100 | 1 | 15 | 0.3 | 5 | 1.6 | SMA | 100*100*26 |
| QPD4-40-900-R5-N | 0.04~0.9 | 0.5 | 1.8 | 18 | 0.8 | 4 | 1.4 | N | 108*40*22 |
| QPD4-70-2000-30-B | 0.07~2 | 30 | 5.8 | 18 | 0.4 | 4 | 1.3 | BNC | 208*178*18 |
| QPD4-80-500-30-S | 0.08~0.5 | 30 | 11.5 | 20 | 0.2 | 3 | 1.25 | SMA | 170*110*12 |
| QPD4-100-400-30-S | 0.1~0.4 | 30 | 1 | 20 | 0.3 | 3 | 1.25 | SMA | 120*128*10 |
| QPD4-100-500-30-S | 0.1~0.5 | 30 | 5.0 | 20 | 0.3 | 4 | 1.3 | SMA | 418*170*14 |
| QPD4-100-500-50-S | 0.1~0.5 | 50 | 1.0 | 20 | 0.2 | 3 | 1.25 | SMA | 252*126*14 |
| QPD4-100-500-50-N | 0.1~0.5 | 50 | 1.0 | 20 | 0.2 | 3 | 1.25 | N | 252*126*22 |
| QPD4-100-500-K3-N-20 | 0.1~0.5 | 300 | 0.8 | 20 | 0.2 | 3 | 1.25 | N | 270*224*22 |
| QPD4-100-500-K3-N-K1 | 0.1~0.5 | 300 | 0.8 | 20 | 0.2 | 3 | 1.25 | N | 270*224*24 |
| QPD4-100-500-K5-7 | 0.1~0.5 | 500 | 0.6 | 20 | 0.2 | 2 | 1.3 | 7/16DIN | 284*228*35 |
| QPD4-100-1000-30-S | 0.1~1 | 30 | 1.8 | 18 | 0.3 | 4 | 1.25 | SMA | 120*118*10 |
| QPD4-100-2000-30-S | 0.1~2 | 30 | 3.4 | 20 | 0.3 | 4 | 1.3 | SMA | 156*118*10 |
| QPD4-100-3000-30-S | 0.1~3 | 30 | 5.6 | 18 | 0.3 | 4 | 1.3 | SMA | 226*90*12 |
| QPD4-118-138-K5-N | 0.118~0.138 | 500 | 0.5 | 25 | 0.2 | 2 | 1.2 | N | 278*175*20 |
| QPD4-120-150-50-N | 0.12~0.15 | 50 | 0.5 | 20 | 0.2 | 3 | 1.2 | N | 168*162*20 |
| QPD4-120-560-50-N | 0.12~0.56 | 50 | 1.0 | 20 | 0.2 | 3 | 1.2 | N | 202*142*20 |
| QPD4-134-3700-30-N | 0.134~3.7 | 30 | 4.2 | 18 | 0.4 | 4 | 1.4 | N | 215*96*20 |
| QPD4-136-174-K3-N | 0.136~0.174 | 300 | 0.4 | 20 | 0.2 | 2 | 1.2 | N | 255*208*22 |
| QPD4-138-960-50-N | 0.138~0.96 | 50 | 1.0 | 18 | 0.2 | 3 | 1.25 | N | 172*132*20 |
| QPD4-150-960-50-N | 0.15~0.96 | 50 | 1.4 | 20 | 0.4 | 4 | 1.4 | N | 214*132*20 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|---------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|---------------|
| QPD4-150-2500-30-S | 0.15~2.5 | 30 | 2.8 | 18 | 0.3 | 4 | 1.25 | SMA | 142*102*10 |
| QPD4-200-250-30-S | 0.2~0.25 | 30 | 0.5 | 20 | 0.3 | 3 | 1.2 | SMA | 118*112*14 |
| QPD4-200-500-K3-N | 0.2~0.5 | 300 | 0.5 | 20 | 0.3 | 3 | 1.2 | N | 255*150*20 |
| QPD4-200-2000-30-S | 0.2~2 | 30 | 1.6 | 20 | 0.3 | 3 | 1.3 | SMA | 114*80*12 |
| QPD4-200-4000-30-S | 0.2~4 | 30 | 3.2 | 18 | 0.4 | 4 | 1.45 | SMA | 164*72*12 |
| QPD4-200-6000-30-S | 0.2~6 | 30 | 4.2 | 18 | 0.4 | 4 | 1.4 | SMA | 140*92*12 |
| QPD4-245-255-K1-S | 0.245~0.255 | 100 | 0.5 | 25 | 0.2 | 3 | 1.25 | SMA | 88*53*10 |
| QPD4-250-6000-30-S | 0.25~6 | 30 | 3.5 | 18 | 0.3 | 4 | 1.3 | SMA | 127*86*12 |
| QPD4-300-1000-K3-N | 0.3~1 | 300 | 0.4 | 18 | 0.3 | 3 | 1.25 | N | 230*124*20 |
| QPD4-300-3000-30-S | 0.3~3 | 30 | 1.2 | 20 | 0.3 | 4 | 1.3 | SMA | 93*85*12 |
| QPD4-300-6000-30-S | 0.3~6 | 30 | 3.5 | 20 | 0.4 | 4 | 1.4 | SMA | 108*92*12 |
| QPD4-350-800-50-N | 0.35~0.8 | 50 | 0.5 | 18 | 0.3 | 3 | 1.25 | N | 106*104*20 |
| QPD4-350-830-K15-B | 0.35~0.83 | 150 | 0.8 | 20 | 0.3 | 3 | 1.3 | BNC | 202*116*20 |
| QPD4-350-3800-30-S | 0.35~3.8 | 30 | 1.6 | 18 | 0.3 | 4 | 1.3 | SMA | 102*68*12 |
| QPD4-350-3800-30-N | 0.35~3.8 | 30 | 1.8 | 18 | 0.3 | 4 | 1.3 | N | 102*91*20 |
| QPD4-380-460-K1-7 | 0.38~0.46 | 100 | 0.5 | 20 | 0.3 | 3 | 1.25 | 7/16DIN | 150*118*30 |
| QPD4-380-470-K3-N | 0.38~0.47 | 300 | 0.4 | 20 | 0.2 | 2 | 1.2 | N | 184*148*22 |
| QPD4-380-8000-30-S | 0.38~8 | 30 | 2.6 | 18 | 0.3 | 4 | 1.35 | SMA | 130*58*10 |
| QPD4-400-470-30-S | 0.4~0.47 | 30 | 0.5 | 20 | 0.3 | 3 | 1.2 | SMA | 114*110*14 |
| QPD4-400-500-10-S | 0.4~0.5 | 10 | 0.7 | 20 | 0.4 | 7 | 1.3 | SMA | 94*65*11 |
| QPD4-400-1000-30-N | 0.4~1 | 30 | 0.5 | 20 | 0.3 | 3 | 1.25 | N | 114*110*22 |
| QPD4-400-1000-K1-N | 0.4~1 | 100 | 0.5 | 20 | 0.3 | 3 | 1.25 | N | 150*110*22 |
| QPD4-400-1000-K2-N | 0.4~1 | 200 | 0.6 | 18 | 0.3 | 3 | 1.3 | N | 160*125*22 |
| QPD4-400-2000-30-S | 0.4~2 | 30 | 1.0 | 20 | 0.3 | 3 | 1.2 | SMA | 87*72*12 |
| QPD4-400-4000-30-S | 0.4~4 | 30 | 1.6 | 20 | 0.3 | 4 | 1.3 | SMA | 88*70*12 |
| QPD4-400-6000-30-S | 0.4~6 | 30 | 2.4 | 20 | 0.3 | 4 | 1.3 | SMA | 127*64*12 |
| QPD4-400-6000-30-N | 0.4~6 | 30 | 2.0 | 18 | 0.3 | 4 | 1.3 | N | 100*82*20 |
| QPD4-400-6000-35-S | 0.4~6 | 35 | 2.2 | 20 | 0.3 | 4 | 1.3 | SMA | 208*64*12 |
| QPD4-400-8000-30-S | 0.4~8 | 30 | 2.5 | 20 | 0.3 | 4 | 1.4 | SMA | 132*64*12 |
| QPD4-400-8000-30-N | 0.4~8 | 30 | 3.6 | 18 | 0.3 | 4 | 1.4 | N | 132*86*20 |
| QPD4-450-6000-30-S | 0.45~6 | 30 | 2.4 | 20 | 0.2 | 4 | 1.3 | SMA | 112*64*12 |
| QPD4-500-1000-30-S | 0.5~1 | 30 | 0.6 | 20 | 0.3 | 3 | 1.3 | SMA | 65*63*12 |
| QPD4-500-1000-30-N | 0.5~1 | 30 | 0.8 | 22 | 0.3 | 3 | 1.3 | N | 97*44*20 |
| QPD4-500-2000-30-S | 0.5~2 | 30 | 1.0 | 20 | 0.3 | 4 | 1.25 | SMA | 68*64*12 |
| QPD4-500-2000-K2-N | 0.5~2 | 200 | 0.7 | 20 | 0.4 | 4 | 1.25 | N | 152*150*20 |
| QPD4-500-3000-30-S | 0.5~3 | 30 | 1.0 | 20 | 0.3 | 4 | 1.2 | SMA | 82*65*12 |
| QPD4-500-4000-K1-S | 0.5~4 | 100 | 3.8 | 18 | 0.3 | 4 | 1.4 | SMA | 222*86*16 |
| QPD4-500-4000-K1-N | 0.5~4 | 100 | 2.0 | 18 | 0.3 | 4 | 1.4 | N | 182*98*20 |
| QPD4-500-6000-30-S | 0.5~6 | 30 | 1.8 | 20 | 0.3 | 4 | 1.3 | SMA | 100*62*12 |
| QPD4-500-6000-30-N | 0.5~6 | 30 | 2.0 | 20 | 0.3 | 4 | 1.3 | N | 100*86*20 |
| QPD4-500-18000-30-S | 0.5~18 | 30 | 2.5 | 15 | 0.8 | 8 | 2.0 | SMA | 163*68*10 |
| QPD4-500-26500-20-S | 0.5~26.5 | 20 | 5.2 | 16 | 0.4 | 6 | 1.6 | SMA | 158*56.5*12.7 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|----------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|-----------------|
| QPD4-500-40000-20-K | 0.5~40 | 20 | 7.5 | 15 | 0.5 | 7 | 1.7 | 2.92mm | 158.5*56.5*12.7 |
| QPD4-555-3400-30-N | 0.555~3.4 | 30 | 1.2 | 18 | 0.3 | 4 | 1.25 | N | 112*110*20 |
| QPD4-600-2000-30-S | 0.6~2 | 30 | 0.8 | 20 | 0.3 | 3 | 1.25 | SMA | 72*62*12 |
| QPD4-600-3000-50-S | 0.6~3 | 50 | 1.0 | 18 | 0.3 | 4 | 1.3 | SMA | 108*85*12 |
| QPD4-600-3600-K1-S | 0.6~3.6 | 100 | 2.0 | 10 | 0.3 | 4 | 1.3 | SMA | 128*85*12 |
| QPD4-600-8000-30-S | 0.6~8 | 30 | 2.2 | 20 | 0.3 | 4 | 1.3 | SMA | 110*58*10 |
| QPD4-698-2700-50-N | 0.698~2.7 | 50 | 0.8 | 20 | 0.4 | 4 | 1.3 | N | 94*77*19 |
| QPD4-698-4000-50-N | 0.698~4 | 50 | 2 | 20 | 0.3 | 4 | 1.25 | N | 134*96*20 |
| QPD4-698-4000-50-4 | 0.698~4 | 50 | 1.5 | 20 | 0.3 | 4 | 1.3 | 4.3/10 | 178*128*30 |
| QPD4-700-1100-30-S | 0.7~1.1 | 30 | 0.4 | 22 | 0.3 | 3 | 1.2 | SMA | 66*66*12 |
| QPD4-700-2000-30-N | 0.7~2 | 30 | 0.6 | 20 | 0.3 | 3 | 1.2 | N | 100*45*20 |
| QPD4-700-2700-30-S | 0.7~2.7 | 30 | 0.6 | 18 | 0.3 | 4 | 1.25 | SMA | 64*52*12 |
| QPD4-700-3000-30-S | 0.7~3 | 30 | 0.8 | 20 | 0.3 | 4 | 1.2 | SMA | 72*60*12 |
| QPD4-700-4000-30-S | 0.7~4 | 30 | 1.0 | 20 | 0.3 | 3 | 1.3 | SMA | 66*66*12 |
| QPD4-700-4000-30-N | 0.7~4 | 30 | 1.0 | 20 | 0.4 | 4 | 1.3 | N | 98*74*20 |
| QPD4-700-4700-30-N | 0.7~4.7 | 30 | 1.6 | 20 | 0.3 | 4 | 1.3 | N | 100*92*20 |
| QPD4-700-5000-30-N | 0.7~5 | 30 | 2.0 | 18 | 0.3 | 5 | 1.4 | N | 130*130*22 |
| QPD4-750-1710-30-S | 0.75~1.71 | 30 | 0.4 | 20 | 0.3 | 3 | 1.2 | SMA | 64*52*12 |
| QPD4-800-2500-30-S | 0.8~2.5 | 30 | 0.6 | 20 | 0.3 | 4 | 1.2 | SMA | 56*50*12 |
| QPD4-800-2500-K2-7 | 0.8~2.5 | 200 | 0.8 | 20 | 0.3 | 4 | 1.3 | 7/16DIN | 138*95*28 |
| QPD4-800-2700-30-S | 0.8~2.7 | 30 | 0.6 | 20 | 0.3 | 4 | 1.25 | SMA | 64*52*12 |
| QPD4-800-4200-K2-N | 0.8~4.2 | 200 | 18.0 | 18 | 0.4 | 4 | 1.4 | N | 152*108*20 |
| QPD4-800-5000-20-S | 0.8~5 | 20 | 1.0 | 18 | 0.15 | 2 | 1.3 | SMA | 120*72*12 |
| QPD4-850-2150-30-N | 0.85~2.15 | 30 | 0.6 | 22 | 0.3 | 3 | 1.2 | N | 114*50*22 |
| QPD4-950-2150-30-S | 0.95~2.15 | 30 | 3.0 | 30 | 0.2 | 3 | 1.2 | SMA | 92*72*12 |
| QPD4-950-2150-30-NS | 0.95~2.15 | 30 | 3.0 | 30 | 0.3 | 3 | 1.2 | N&SMA | 106*70*20 |
| QPD4-1000-2000-30-S | 1~2 | 30 | 0.6 | 25 | 0.3 | 3 | 1.3 | SMA | 64*52*12 |
| QPD4-1000-2000-30-N | 1~2 | 30 | 0.8 | 20 | 0.3 | 3 | 1.3 | N | 97*44*20 |
| QPD4-1000-2500-K1-N | 1~2.5 | 100 | 0.6 | 18 | 0.3 | 4 | 1.25 | N | 114*110*22 |
| QPD4-1000-2500-K1-NS | 1~2.5 | 100 | 0.6 | 18 | 0.3 | 4 | 1.25 | N&SMA | 114*110*22 |
| QPD4-1000-3000-30-S | 1~3 | 30 | 0.6 | 20 | 0.3 | 3 | 1.3 | SMA | 56*43*10 |
| QPD4-1000-4000-30-S | 1~4 | 30 | 0.8 | 20 | 0.3 | 3 | 1.3 | SMA | 56*43*10 |
| QPD4-1000-6000-30-S | 1~6 | 30 | 1.2 | 20 | 0.3 | 4 | 1.3 | SMA | 60*55*12 |
| QPD4-1000-8000-30-S | 1~8 | 30 | 1.5 | 20 | 0.4 | 5 | 1.4 | SMA | 70.5*56*10 |
| QPD4-1000-18000-20-S | 1~18 | 20 | 3.0 | 16 | 0.5 | 6 | 1.55 | SMA | 99*71*10 |
| QPD4-1100-1700-20-B | 1.1~1.7 | 30 | 0.5 | 20 | 0.3 | 3 | 1.2 | BNC | 102*72*20 |
| QPD4-1100-1700-20-T | 1.1~1.7 | 30 | 0.5 | 20 | 0.3 | 3 | 1.2 | TNC | 102*72*20 |
| QPD4-1100-1700-20-N | 1.1~1.7 | 30 | 0.5 | 20 | 0.3 | 3 | 1.2 | N | 102*72*20 |
| QPD4-1100-2700-K1-S | 1.1~2.7 | 100 | 0.6 | 18 | 0.3 | 4 | 1.25 | SMA | 110*100*11 |
| QPD4-1300-2400-30-S | 1.3~2.4 | 30 | 0.5 | 22 | 0.1 | 1 | 1.2 | SMA | 64*52*12 |
| QPD4-1900-5800-30-S | 1.9~5.8 | 30 | 0.5 | 20 | 0.3 | 4 | 1.25 | SMA | 56*50*12 |
| QPD4-2000-2400-30-N | 2~2.4 | 30 | 0.5 | 20 | 0.3 | 3 | 1.25 | N | 97*40*20 |

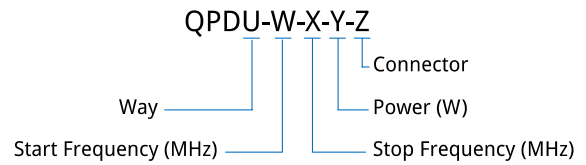
*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (\pm dB, max.) | Phase Bal. (\pm° , max.) | VSWR (max.) | Connector | Size (mm) |
|-----------------------|-------------|-----------|---------------------------|----------------------|----------------------------------|----------------------------------|-------------|-----------|--------------|
| QPD4-2000-4000-30-S | 2~4 | 30 | 0.6 | 20 | 0.3 | 3 | 1.25 | SMA | 56*50*10 |
| QPD4-2000-4000-30-N | 2~4 | 30 | 0.8 | 20 | 0.3 | 3 | 1.25 | N | 97*49*20 |
| QPD4-2000-6000-K4-NS | 2~6 | 400 | 0.8 | 15 | 0.5 | 10 | 1.6 | N&SMA | 210*64.2*30 |
| QPD4-2000-6000-30-S | 2~6 | 30 | 0.6 | 22 | 0.3 | 4 | 1.25 | SMA | 56*50*12 |
| QPD4-2000-6000-30-N | 2~6 | 30 | 1.0 | 20 | 0.3 | 4 | 1.25 | N | 97*49*20 |
| QPD4-2000-6000-50-S | 2~6 | 50 | 1.5 | 18 | 0.3 | 4 | 1.35 | SMA | 94*60*10 |
| QPD4-2000-8000-30-S | 2~8 | 30 | 1.2 | 18 | 0.3 | 4 | 1.4 | SMA | 56*50*10 |
| QPD4-2000-8000-30-N | 2~8 | 30 | 1.2 | 18 | 0.3 | 4 | 1.4 | N | 97*49*20 |
| QPD4-2000-9000-30-S | 2~9 | 30 | 1.8 | 18 | 0.3 | 4 | 1.4 | SMA | 56*56*10 |
| QPD4-2000-12000-20-S | 2~12 | 20 | 1.6 | 17 | 0.4 | 5 | 1.5 | SMA | 69*60*10 |
| QPD4-2000-18000-20-S | 2~18 | 20 | 2.0 | 17 | 0.4 | 6 | 1.5 | SMA | 69*60*10 |
| QPD4-2000-26500-20-S | 2~26.5 | 20 | 2.6 | 16 | 0.5 | 6 | 1.7 | SMA | 73*59*10 |
| QPD4-2000-26500-20-K | 2~26.5 | 20 | 2.6 | 16 | 0.5 | 6 | 1.7 | 2.92mm | 73*59*10 |
| QPD4-2000-40000-20-K | 2~40 | 20 | 3.0 | 15 | 0.5 | 10 | 2.1 | 2.92mm | 52*46*10 |
| QPD4-2400-5900-50-N | 2.4~5.9 | 50 | 0.6 | 18 | 0.2 | 3 | 1.3 | N | 110*70*22 |
| QPD4-2400-5900-K1-N | 2.4~5.9 | 100 | 1.0 | 18 | 0.3 | 4 | 1.25 | N | 110*108*22 |
| QPD4-2400-6000-K1-N | 2.4~6 | 100 | 1.2 | 18 | 0.3 | 4 | 1.3 | N | 110*108*22 |
| QPD4-2400-6000-K1-NS | 2.4~6 | 100 | 1.2 | 18 | 0.3 | 4 | 1.3 | N&SMA | 110*108*22 |
| QPD4-2500-4000-K2-N | 2.5~4 | 200 | 1.0 | 18 | 0.3 | 4 | 1.35 | N | 108*102*22 |
| QPD4-2600-3500-K15-N | 2.6~3.5 | 150 | 0.5 | 18 | 0.2 | 3 | 1.25 | N | 115*104*22 |
| QPD4-3000-5000-K1-N | 3~5 | 100 | 0.8 | 18 | 0.3 | 4 | 1.25 | N | 110*108*22 |
| QPD4-3400-3800-30-N | 3.4~3.8 | 30 | 0.5 | 18 | 0.2 | 3 | 1.25 | N | 110*63*20 |
| QPD4-3400-3800-K1-N | 3.4~3.8 | 100 | 0.6 | 20 | 0.2 | 3 | 1.25 | N | 110*102*20 |
| QPD4-3400-4800-30-SN | 3.4~4.8 | 30 | 0.8 | 25 | 0.3 | 3 | 1.25 | SMA&N | 105*50*20 |
| QPD4-4000-8000-30-S | 4~8 | 30 | 0.6 | 20 | 0.3 | 3 | 1.3 | SMA | 55*36*10 |
| QPD4-4000-12000-20-S | 4~12 | 20 | 1.2 | 18 | 0.2 | 4 | 1.4 | SMA | 60*54*10 |
| QPD4-4000-18000-20-S | 4~18 | 20 | 2 | 17 | 0.4 | 6 | 1.5 | SMA | 60*69*10 |
| QPD4-5500-6000-30-SM | 5.5~6 | 30 | 0.6 | 20 | 0.3 | 4 | 1.3 | SMA | 56*43*10 |
| QPD4-6000-11000-20-S | 6~11 | 20 | 1.0 | 18 | 0.3 | 4 | 1.3 | SMA | 60*58*10 |
| QPD4-6000-18000-20-S | 6~18 | 20 | 1.2 | 18 | 0.3 | 6 | 1.5 | SMA | 50.5*45*10 |
| QPD4-6000-18000-50-S | 6~18 | 50 | 1.5 | 18 | 0.4 | 5 | 1.6 | SMA | 91*45*10 |
| QPD4-6000-18000-K1-S | 6~18 | 100 | 1.5 | 15 | 0.4 | 5 | 1.6 | SMA | 85*50*10 |
| QPD4-6900-7400-30-S | 6.9~7.4 | 30 | 0.5 | 20 | 0.3 | 3 | 1.25 | SMA | 60*36*10 |
| QPD4-7000-8500-30-S | 7~8.5 | 30 | 0.6 | 20 | 0.3 | 3 | 1.3 | SMA | 60*36*10 |
| QPD4-7000-9000-30-S | 7~9 | 30 | 0.6 | 18 | 0.3 | 3 | 1.3 | SMA | 60*36*10 |
| QPD4-8000-12000-20-S | 8~12 | 20 | 1.0 | 18 | 0.4 | 5 | 1.4 | SMA | 60*54*10 |
| QPD4-8000-30000-20-K | 8~30 | 20 | 1.6 | 16 | 0.4 | 4 | 1.5 | 2.92mm | 52*35*10 |
| QPD4-10000-26500-20-K | 10~26.5 | 20 | 1.5 | 16 | 0.4 | 4 | 1.5 | 2.92mm | 52*35*10 |
| QPD4-10000-40000-20-K | 10~40 | 20 | 1.5 | 16 | 0.4 | 6 | 1.5 | 2.92mm | 52.3*38.1*10 |
| QPD4-10700-12750-20-S | 10.7~12.75 | 20 | 1.0 | 18 | 0.4 | 5 | 1.4 | SMA | 54*48*10 |
| QPD4-10900-12700-20-S | 10.9~12.7 | 20 | 1.0 | 18 | 0.4 | 5 | 1.4 | SMA | 60*50*10 |
| QPD4-10900-12700-20-N | 10.9~12.7 | 20 | 1.0 | 18 | 0.4 | 5 | 1.4 | N | 97*49*20 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (\pm dB, max.) | Phase Bal. (\pm° , max.) | VSWR (max.) | Connector | Size (mm) |
|-----------------------|-------------|-----------|---------------------------|----------------------|----------------------------------|----------------------------------|-------------|-----------|--------------|
| QPD4-12000-15000-20-S | 12~15 | 20 | 1.0 | 18 | 0.3 | 4 | 1.4 | SMA | 54*50*10 |
| QPD4-13750-14500-20-S | 13.75~14.5 | 20 | 1.0 | 18 | 0.4 | 5 | 1.4 | SMA | 60*50*10 |
| QPD4-13750-14500-20-N | 13.75~14.5 | 20 | 1.0 | 18 | 0.4 | 5 | 1.4 | N | 97*49*20 |
| QPD4-15000-17000-20-S | 15~17 | 20 | 1.2 | 18 | 0.4 | 4 | 1.4 | SMA | 54*48*10 |
| QPD4-18000-26500-20-K | 18~26.5 | 20 | 1.6 | 16 | 0.4 | 6 | 1.6 | 2.92mm | 52.3*38.1*10 |
| QPD4-18000-40000-20-K | 18~40 | 20 | 1.5 | 16 | 0.4 | 6 | 1.5 | 2.92mm | 52.3*38.1*10 |
| QPD4-18000-50000-20-2 | 18~50 | 20 | 2.5 | 15 | 0.6 | 10 | 1.8 | 2.4mm | 52*24*10 |
| QPD4-24000-40000-20-K | 24~40 | 20 | 1.6 | 16 | 0.4 | 8 | 1.8 | 2.92mm | 52*35*10 |
| QPD4-25000-50000-20-V | 25~50 | 20 | 2.0 | 15 | 0.6 | 10 | 1.8 | 1.85mm | 52*24*10 |
| QPD4-26000-31000-20-K | 26~31 | 20 | 1.4 | 16 | 0.4 | 6 | 1.5 | 2.92mm | 52*35*10 |
| QPD4-34000-36000-20-K | 34~36 | 20 | 1.4 | 16 | 0.4 | 5 | 1.5 | 2.92mm | 52.3*38.1*10 |

*Size: Exclude connectors.



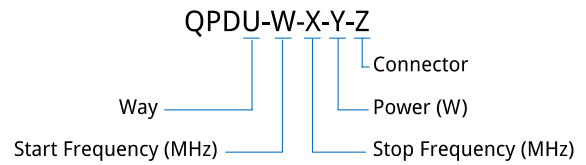
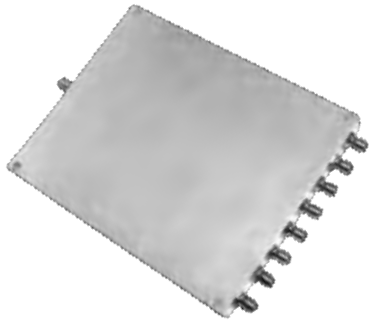
Environmental

Operation Temperature: -35~+75°C

Impedance: 50Ω

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|----------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|--------------|
| QPD6-0-1000-1-S | DC~1 | 1 | 16±1.5 | 16 | 0.6 | - | 1.2 | SMA | 33.7*32.9*16 |
| QPD6-0-6000-2-S | DC~6 | 2 | 17 | 14.6 | 0.8 | 9 | 1.5 | SMA | 80*40*12 |
| QPD6-0-8000-2-S | DC~8 | 2 | 18±1 | 16 | 1.5 | - | 1.5 | SMA | 33.7*32.9*16 |
| QPD6-0-10000-R5-S | DC~10 | 0.5 | 16±3.5 | - | 3 | - | 1.7 | SMA | 80*40*12 |
| QPD6-1-200-2-S | 0.001~0.2 | 2 | 15.9 | 14.6 | 0.3 | 3 | 1.2 | SMA | 92*44*12.5 |
| QPD6-400-500-10-S | 0.4~0.5 | 10 | 1.2 | 20 | 0.7 | 10 | 1.3 | SMA | 142*85*11 |
| QPD6-400-4000-30-SN | 0.4~4 | 30 | 3.0 | 18 | 0.9 | 10 | 1.3 | SMA&N | 138*132*20 |
| QPD6-500-2000-20-S | 0.5~2 | 20 | 1 | 20 | 0.5 | 5 | 1.3 | SMA | 120*96*10 |
| QPD6-500-3000-50-S | 0.5~3 | 50 | 2.6 | 18 | 1.5 | 20 | 1.5 | SMA | 118*105*12 |
| QPD6-500-6000-30-S | 0.5~6 | 30 | 3.0 | 18 | 0.8 | 8 | 1.5 | SMA | 150*94*12 |
| QPD6-500-6000-30-N | 0.5~6 | 30 | 4.0 | 18 | 1 | 10 | 1.5 | N | 150*142*20 |
| QPD6-500-8000-20-S | 0.5~8 | 20 | 3.5 | 17 | 1 | 10 | 1.55 | SMA | 220*94*12 |
| QPD6-700-2700-40-S | 0.7~2.7 | 40 | 1.0 | 20 | 0.5 | 6 | 1.3 | SMA | 124*98*12 |
| QPD6-700-4000-30-S | 0.7~4 | 30 | 1.6 | 18 | 0.8 | 8 | 1.4 | SMA | 110*80*12 |
| QPD6-800-2500-20-S | 0.8~2.5 | 20 | 1.0 | 20 | 0.4 | 5 | 1.3 | SMA | 88*85*14 |
| QPD6-800-2700-30-N | 0.8~2.7 | 30 | 1.4 | 18 | 0.5 | 6 | 1.35 | N | 150*95*20 |
| QPD6-800-3000-30-S | 0.8~3 | 30 | 1.2 | 20 | 0.5 | 6 | 1.3 | SMA | 88*85*12 |
| QPD6-900-6100-20-S | 0.9~6.1 | 20 | 3 | 20 | 0.8 | 8 | 1.5 | SMA | 138*94*10 |
| QPD6-1000-1700-30-S | 1~1.7 | 30 | 1.0 | 20 | 0.4 | 5 | 1.3 | SMA | 85*65*12 |
| QPD6-1000-1700-30-N | 1~1.7 | 30 | 1.0 | 20 | 0.4 | 4 | 1.3 | N | 155*98*20 |
| QPD6-1000-1700-30-T | 1~1.7 | 30 | 1.0 | 20 | 0.4 | 4 | 1.3 | TNC | 155*98*20 |
| QPD6-1000-2000-30-N | 1~2 | 30 | 1.2 | 20 | 0.5 | 5 | 1.3 | N | 156*76*20 |
| QPD6-1000-8000-20-S | 1~8 | 20 | 1.8 | 18 | 0.5 | 6 | 1.5 | SMA | 130*80*10 |
| QPD6-1500-5000-20-S | 1.5~5 | 20 | 1.0 | 18 | 0.4 | 5 | 1.35 | SMA | 88*83*10 |
| QPD6-2000-6000-30-S | 2~6 | 30 | 1.0 | 20 | 0.5 | 6 | 1.35 | SMA | 88*83*10 |
| QPD6-2000-8000-30-S | 2~8 | 30 | 1.2 | 20 | 0.5 | 6 | 1.35 | SMA | 88*83*10 |
| QPD6-2000-18000-20-S | 2~18 | 20 | 2.6 | 16 | 0.6 | 8 | 1.5 | SMA | 109*76*10 |
| QPD6-3700-4900-20-SP | 3.7~4.9 | 20 | 0.5 | 20 | 0.3 | 1.2 | 1.25 | SMA&SMP | 66*58*10 |
| QPD6-4000-8000-30-S | 4~8 | 30 | 1.0 | 20 | 0.5 | 5 | 1.4 | SMA | 83*68*10 |
| QPD6-8000-17000-20-S | 8~17 | 20 | 1.5 | 18 | 0.8 | 8 | 1.7 | SMA | 70.5*50*10 |

*Size: Exclude connectors.



Environmental

Operation Temperature: -35~+75°C

Impedance: 50Ω

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|----------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|--------------|
| QPD8-0-2000-2-N | DC~2 | 2 | 22.0 | 20 | 0.4 | 5 | 1.3 | N | 196*60*20 |
| QPD8-0-3000-2-S | DC~3 | 2 | 18.5 | 17 | 0.5 | 5 | 1.3 | SMA | 120*60*12 |
| QPD8-0-3000-2-N | DC~3 | 2 | 23.0 | 20 | 0.6 | 8 | 1.3 | N | 196*60*20 |
| QPD8-0-4000-2-S | DC~4 | 2 | 19.5 | 17 | 0.8 | 8 | 1.4 | SMA | 120*60*12 |
| QPD8-0-6000-2-S | DC~6 | 2 | 18±2.5 | 18 | 1.2 | - | 1.5 | SMA | 43.2*42.5*16 |
| QPD8-0-8000-2-S | DC~8 | 2 | 20±1.5 | 18 | 1.8 | - | 1.6 | SMA | 43.2*42.5*16 |
| QPD8-0-10000-R5-S | DC~10 | 0.5 | 18±2.8 | - | 2 | - | 1.6 | SMA | 106*50*12 |
| QPD8-0-18000-1-S | DC~18 | 1 | 23.0 | 18 | 1.4 | - | 2.5 | SMA | 92.5*60.5*10 |
| QPD8-5-1000-1-S | 0.005~1 | 1 | 3.0 | 18 | 0.5 | 10 | 1.5 | SMA | 120*32*13 |
| QPD8-5-1000-50-S | 0.005~1 | 50 | 1.6 | 12 | 0.2 | 5 | 1.6 | SMA | 164*126*26 |
| QPD8-10-100-1-S | 0.01~0.1 | 1 | 1.0 | 20 | 0.4 | 4 | 1.3 | SMA | 120*32*13 |
| QPD8-30-3000-2-S | 0.03~3 | 2 | 18.5 | 17 | 0.5 | 5 | 1.3 | SMA | 120*60*12 |
| QPD8-80-500-30-S | 0.08~0.5 | 30 | 1.8 | 18 | 0.2 | 3 | 1.3 | SMA | 202*166*10 |
| QPD8-80-4000-30-S | 0.08~4 | 30 | 6.6 | 13 | 0.4 | 8 | 1.55 | SMA | 332*164*12 |
| QPD8-98-102-30-N | 0.098~0.102 | 30 | 0.8 | 20 | 0.2 | 3 | 1.2 | N | 215*168*20 |
| QPD8-100-700-1-S | 0.1~0.7 | 1 | 2.0 | 18 | 0.4 | 8 | 1.5 | SMA | 120*32*13 |
| QPD8-100-700-30-S | 0.1~0.7 | 30 | 2.0 | 20 | 0.3 | 3 | 1.25 | SMA | 190*190*12 |
| QPD8-100-2000-30-S | 0.1~2 | 30 | 3.4 | 18 | 0.3 | 4 | 1.35 | SMA | 224*220*10 |
| QPD8-100-3000-30-S | 0.1~3 | 30 | 6.5 | 18 | 0.3 | 6 | 1.35 | SMA | 322*170*10 |
| QPD8-100-4000-30-SMS | 0.1~4 | 30 | 6.5 | 12 | 0.5 | 6 | 1.55 | SMA | 252*158*10 |
| QPD8-200-1000-30-S | 0.2~1 | 30 | 1.4 | 20 | 0.4 | 4 | 1.25 | SMA | 172*138*12 |
| QPD8-200-1000-K1-S | 0.2~1 | 100 | 1 | 20 | 0.3 | 4 | 1.25 | SMA | 364*208*14 |
| QPD8-200-2000-30-S | 0.2~2 | 30 | 2.8 | 18 | 0.3 | 4 | 1.3 | SMA | 168*142*10 |
| QPD8-200-2300-30-S | 0.2~2.3 | 30 | 3.0 | 18 | 0.3 | 4 | 1.3 | SMA | 218*118*12 |
| QPD8-200-6000-30-S | 0.2~6 | 30 | 6.8 | 17 | 0.5 | 5 | 1.35 | SMA | 260*120*12 |
| QPD8-223-235-30-S | 0.223~0.235 | 30 | 1.2 | 20 | 0.4 | 4 | 1.3 | SMA | 138*130*12 |
| QPD8-240-30-S | 0.24 | 30 | 0.6 | 20 | 0.2 | 2 | 1.2 | SMA | 202*106*14 |
| QPD8-300-500-30-S | 0.3~0.5 | 30 | 0.8 | 20 | 0.2 | 3 | 1.25 | SMA | 210*98*12 |
| QPD8-300-3000-NS | 0.3~3 | 30 | 2.6 | 20 | 0.3 | 4 | 1.3 | SMA&N | 163*120*20 |
| QPD8-300-3000-30-S | 0.3~3 | 30 | 3.0 | 20 | 0.3 | 4 | 1.35 | SMA | 163*120*12 |
| QPD8-300-6000-30-S | 0.3~6 | 30 | 5.2 | 18 | 0.4 | 5 | 1.4 | SMA | 176*120*12 |
| QPD8-400-900-30-B | 0.4~0.9 | 30 | 0.6 | 20 | 0.3 | 3 | 1.25 | BNC | 194*124*20 |
| QPD8-400-4000-30-S | 0.4~4 | 30 | 2.4 | 20 | 0.4 | 4 | 1.35 | N | 200*100*20 |
| QPD8-400-4000-30-N | 0.4~4 | 30 | 2.4 | 20 | 0.4 | 4 | 1.35 | N | 200*100*20 |

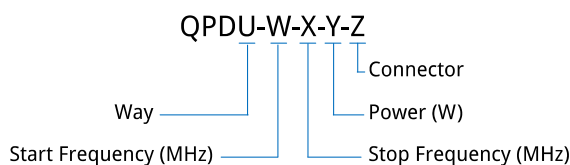
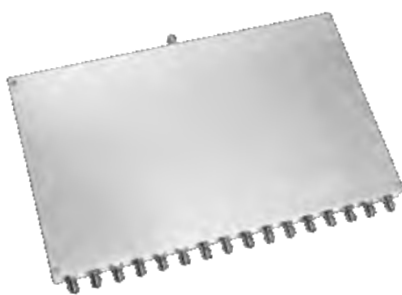
*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|----------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|-------------------|
| QPD8-400-6000-30-S | 0.4-6 | 30 | 3.2 | 20 | 0.4 | 5 | 1.35 | SMA | 138*120*12 |
| QPD8-400-6000-80-S | 0.4-6 | 80 | 6.0 | 18 | 0.3 | 6 | 1.6 | SMA | 324*185*14 |
| QPD8-450-6000-30-S | 0.45-6 | 30 | 3.2 | 18 | 0.3 | 4 | 1.35 | SMA | 120*120*12 |
| QPD8-470-510-10-S | 0.47-0.51 | 10 | 2.0 | 20 | 0.5 | 5 | 1.3 | SMA | 190*60*11 |
| QPD8-470-510-20-S | 0.47-0.51 | 20 | 1.5 | 20 | 0.5 | 5 | 1.3 | SMA | 192*81*12 |
| QPD8-500-2000-30-S | 0.5-2 | 30 | 1.5 | 20 | 0.4 | 4 | 1.3 | SMA | 123*120*12 |
| QPD8-500-3000-30-S | 0.5-3 | 30 | 1.5 | 20 | 0.4 | 4 | 1.3 | SMA | 120*100*12 |
| QPD8-500-3000-30-N | 0.5-3 | 30 | 1.8 | 20 | 0.3 | 4 | 1.3 | N | 200*95*20 |
| QPD8-500-4000-30-NS | 0.5-4 | 30 | 2.0 | 20 | 0.3 | 4 | 1.3 | SMA&N | 120*110*20 |
| QPD8-500-4000-30-S | 0.5-4 | 30 | 2.3 | 20 | 0.2 | 4 | 1.3 | SMA | 126*110*12 |
| QPD8-500-6000-30-S | 0.5-6 | 30 | 3.0 | 18 | 0.4 | 4 | 1.4 | SMA | 115*113*12 |
| QPD8-500-6000-30-N | 0.5-6 | 30 | 3.0 | 18 | 0.4 | 5 | 1.4 | N | 200*120*20 |
| QPD8-500-8000-30-S | 0.5-8 | 30 | 3.8 | 20 | 0.4 | 5 | 1.45 | SMA | 150*120*12 |
| QPD8-500-8000-30-N | 0.5-8 | 30 | 6.0 | 18 | 0.4 | 5 | 1.45 | N | 200*150*20 |
| QPD8-500-18000-20-S | 0.5-18 | 20 | 6.0 | 14 | 0.8 | 10 | 2 | SMA | 172*160*10 |
| QPD8-600-2000-30-S | 0.6-2 | 30 | 1.0 | 20 | 0.3 | 4 | 1.25 | SMA | 112*70*12 |
| QPD8-600-6000-30-S | 0.6-6 | 30 | 2.8 | 20 | 0.4 | 5 | 1.4 | SMA | 115*113*12 |
| QPD8-600-6000-30-N | 0.6-6 | 30 | 3.2 | 18 | 0.4 | 5 | 1.4 | N | 200*120*20 |
| QPD8-600-8000-30-S | 0.6-8 | 30 | 3.6 | 20 | 0.4 | 5 | 1.4 | SMA | 130*118*10 |
| QPD8-700-3000-30-S | 0.7-3 | 30 | 1.0 | 20 | 0.3 | 4 | 1.3 | SMA | 116*86*14 |
| QPD8-700-3000-30-N | 0.7-3 | 30 | 1.2 | 20 | 0.4 | 4 | 1.3 | N | 196*88*20 |
| QPD8-700-4000-30-N | 0.7-4 | 30 | 1.8 | 20 | 0.4 | 4 | 1.3 | N | 200*100*20 |
| QPD8-750-1710-30-S | 0.75-1.71 | 30 | 0.6 | 20 | 0.3 | 3 | 1.2 | SMA | 112*70*12 |
| QPD8-800-2000-30-S | 0.8-2 | 30 | 1.0 | 20 | 0.3 | 4 | 1.25 | SMA | 101.6*68.58*10.16 |
| QPD8-800-2500-30-N | 0.8-2.5 | 30 | 1.4 | 20 | 0.4 | 4 | 1.25 | N | 196*88*20 |
| QPD8-800-2700-30-N | 0.8-2.7 | 30 | 1.5 | 20 | 0.4 | 4 | 1.3 | N | 196*88*20 |
| QPD8-800-4200-30-S | 0.8-4.2 | 30 | 1.8 | 20 | 0.4 | 4 | 1.4 | SMA | 120*90*12 |
| QPD8-800-5000-20-S | 0.8-5 | 20 | 1.5 | 20 | 0.4 | 3 | 1.4 | SMA | 150*148*12 |
| QPD8-800-6000-20-S | 0.8-6 | 20 | 2.0 | 20 | 0.4 | 5 | 1.35 | SMA | 118*108*10 |
| QPD8-800-8000-30-S | 0.8-8 | 30 | 3.6 | 20 | 0.4 | 5 | 1.4 | SMA | 118*115*10 |
| QPD8-950-2150-30-S | 0.95-2.15 | 30 | 3.0 | 30 | 0.3 | 3 | 1.25 | SMA | 110*93*12 |
| QPD8-950-2150-30-N | 0.95-2.15 | 30 | 1.2 | 22 | 0.4 | 4 | 1.25 | N | 196*88*20 |
| QPD8-950-2150-30-T | 0.95-2.15 | 30 | 0.8 | 20 | 0.3 | 3 | 1.25 | TNC | 192*62*20 |
| QPD8-950-2150-30-NS | 0.95-2.15 | 30 | 3.0 | 30 | 0.3 | 3 | 1.25 | N&SMA | 224*80*21 |
| QPD8-1000-1700-30-S | 1-1.7 | 30 | 0.8 | 22 | 0.4 | 4 | 1.25 | SMA | 112*70*12 |
| QPD8-1000-6000-20-S | 1-6 | 20 | 3.5 | 18 | 0.5 | 5 | 1.4 | SMA | 119*102*12 |
| QPD8-1000-18000-20-S | 1-18 | 20 | 4.0 | 15 | 0.5 | 10 | 1.8 | SMA | 156*110*10 |
| QPD8-1100-1700-30-T | 1.1-1.7 | 30 | 0.8 | 22 | 0.3 | 3 | 1.25 | TNC | 192*62*20 |
| QPD8-1370-30-S | 1.37 | 30 | 0.8 | 20 | 0.2 | 3 | 1.2 | SMA | 112*70*12 |
| QPD8-1500-1700-20-S | 1.5-1.7 | 20 | 0.3 | 20 | 0.2 | 4 | 1.25 | SMA | 138*125*14 |
| QPD8-1500-5000-30-S | 1.5-5 | 30 | 1.2 | 20 | 0.2 | 2 | 1.3 | SMA | 108*63*10 |
| QPD8-1525-1850-K1-N | 1.525-1.85 | 100 | 0.8 | 18 | 0.3 | 4 | 1.2 | N | 212*125*22 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|-----------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|---------------|
| QPD8-1850-2700-K25-N | 1.85~2.7 | 250 | 0.8 | 18 | 0.4 | 4 | 1.3 | N | 212*145*22 |
| QPD8-2000-6000-30-S | 2~6 | 30 | 1.0 | 18 | 0.3 | 4 | 1.3 | SMA | 108*63*10 |
| QPD8-2000-6000-30-N | 2~6 | 30 | 1.2 | 20 | 0.4 | 4 | 1.3 | N | 200*60*20 |
| QPD8-2000-8000-30-S | 2~8 | 30 | 1.5 | 18 | 0.4 | 5 | 1.35 | SMA | 108*63*10 |
| QPD8-2000-10000-30-S | 2~10 | 30 | 2.0 | 18 | 0.4 | 4 | 1.4 | SMA | 110*80*10 |
| QPD8-2000-18000-20-S | 2~18 | 20 | 3.2 | 16 | 0.5 | 10 | 1.6 | SMA | 148.5*95*10 |
| QPD8-2000-26500-20-S | 2~26.5 | 20 | 3.2 | 16 | 0.8 | 10 | 1.9 | SMA | 123.5*88*10 |
| QPD8-2000-26500-20-K | 2~26.5 | 20 | 3.2 | 16 | 0.8 | 10 | 1.9 | 2.92mm | 123.5*88*10 |
| QPD8-2400-6000-30-S | 2.4~6 | 30 | 1.5 | 20 | 0.4 | 4 | 1.35 | SMA | 108*63*10 |
| QPD8-3000-13000-20-S | 3~13 | 20 | 2.0 | 18 | 0.4 | 6 | 1.4 | SMA | 188*98*10 |
| QPD8-4000-6000-30-S | 4~6 | 30 | 1.2 | 18 | 0.4 | 4 | 1.4 | SMA | 108*63*10 |
| QPD8-4000-8000-30-S | 4~8 | 30 | 0.8 | 18 | 0.3 | 5 | 1.35 | SMA | 112*56*12 |
| QPD8-4000-12000-20-S | 4~12 | 20 | 1.5 | 18 | 0.2 | 4 | 1.5 | SMA | 110*82*10 |
| QPD8-4900-5900-30-S | 4.9~5.9 | 30 | 0.8 | 20 | 0.3 | 3 | 1.3 | SMA | 108*63*10 |
| QPD8-5000-12000-20-S | 5~12 | 20 | 1.2 | 18 | 0.5 | 5 | 1.4 | SMA | 104*55*10 |
| QPD8-6000-12000-20-SM | 6~12 | 20 | 1.5 | 18 | 0.4 | 5 | 1.5 | SMA | 106*60*10 |
| QPD8-6000-18000-50-S | 6~18 | 50 | 2.4 | 17 | 0.5 | 8 | 1.8 | SMA | 191*63*10 |
| QPD8-6000-18000-K1-S | 6~18 | 100 | 2.4 | 15 | 0.5 | 8 | 1.8 | SMA | 191*70*10 |
| QPD8-6000-43500-20-K | 6~43.5 | 20 | 3.2 | 15 | 0.5 | 8 | 2.2 | 2.92mm | 104*40*10 |
| QPD8-8000-9000-K1-S | 8~9 | 100 | 1.5 | 18 | 0.5 | 5 | 1.35 | SMA | 191*70*10 |
| QPD8-8000-12000-20-S | 8~12 | 20 | 1.4 | 18 | 0.4 | 5 | 1.4 | SMA | 122.5*57.5*10 |
| QPD8-9000-11000-20-S | 9~11 | 20 | 1.2 | 18 | 0.4 | 5 | 1.4 | SMA | 122.5*57.5*10 |
| QPD8-9000-45000-R1-2 | 9~45 | 0.1 | 7.0 | 15 | 1 | 20 | 1.4 | 2.4mm | 120*40*12.7 |
| QPD8-18000-26500-20-K | 18~26.5 | 20 | 1.8 | 16 | 0.5 | 6 | 1.6 | 2.92mm | 104*40*10 |
| QPD8-18000-40000-20-K | 18~40 | 20 | 3.2 | 16 | 0.5 | 8 | 1.7 | 2.92mm | 104*40*10 |
| QPD8-35350-36150-20-K | 35.35~36.15 | 20 | 1.8 | 18 | 0.5 | 8 | 1.5 | 2.92mm | 104*40*10 |
| QPD8-40000-50000-16-2 | 40~50 | 16 | 4.2 | 18 | 0.8 | 10 | 1.8 | 2.4mm | 103.7*30*12.7 |
| QPD8-50000-66000-R1 | 50~66 | 0.1 | 6.0 | 15 | 1 | 20 | 1.4 | WR-15 | 180*50*20 |

*Size: Exclude connectors.



Environmental

Operation Temperature: -35~+75°C

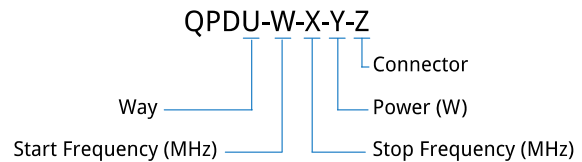
Impedance: 50Ω

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|-----------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|-----------|--------------|
| QPD16-0-3000-2-S | DC~3 | 2 | 24±2.5 | 24 | 1.5 | - | 1.4 | SMA | 81.3*80.9*16 |
| QPD16-5-300-1-S | 0.005~0.3 | 1 | 2.7 | 18 | 0.9 | 15 | 1.5 | SMA | 50*209*10 |
| QPD16-5-1000-2-S | 0.005~1 | 2 | 24±2.0 | 24 | 1.2 | - | 1.3 | SMA | 81.3*80.9*16 |
| QPD16-50-1000-1-S | 0.05~1 | 1 | 3.7 | 18 | 0.9 | 15 | 1.5 | SMA | 50*209*10 |
| QPD16-50-5000-2-S | 0.05~5 | 2 | 28 | 22 | 0.8 | 8 | 1.5 | SMA | 236*80*12 |
| QPD16-98-102-30-N | 0.098~0.102 | 30 | 1.2 | 20 | 0.3 | 3 | 1.2 | N | 420*196*20 |
| QPD16-200-2000-30-NS | 0.2~2 | 30 | 3.5 | 20 | 0.2 | 2 | 1.5 | SMA&N | 160*370*20 |
| QPD16-260-460-20-S | 0.26~0.46 | 20 | 1.5 | 20 | 0.3 | 4 | 1.25 | SMA | 300*138*14 |
| QPD16-300-4000-30-S | 0.3~4 | 30 | 4.0 | 18 | 0.4 | 6 | 1.45 | SMA | 236*176*12 |
| QPD16-380-6000-30-S | 0.38~6 | 30 | 6.0 | 18 | 0.5 | 8 | 1.5 | SMA | 232*180*12 |
| QPD16-380-6000-30-N | 0.38~6 | 30 | 6.8 | 18 | 0.5 | 8 | 1.5 | N | 388*180*20 |
| QPD16-400-6000-30-S | 0.4~6 | 30 | 5.0 | 18 | 0.5 | 8 | 1.5 | SMA | 160*232*12 |
| QPD16-500-3000-50-S | 0.5~3 | 50 | 3.0 | 18 | 1 | 15 | 1.6 | SMA | 217*125*12 |
| QPD16-500-3000-50-N | 0.5~3 | 50 | 3.0 | 18 | 1 | 15 | 1.6 | N | 386*125*18 |
| QPD16-500-6000-30-S | 0.5~6 | 30 | 4.8 | 20 | 0.5 | 8 | 1.5 | SMA | 236*150*12 |
| QPD16-500-6000-30-N | 0.5~6 | 30 | 4.8 | 18 | 0.5 | 8 | 1.5 | N | 388*150*20 |
| QPD16-600-2000-30-S | 0.6~2 | 30 | 1.4 | 20 | 0.2 | 2 | 1.3 | SMA | 102*218*12 |
| QPD16-600-3000-30-N | 0.6~3 | 30 | 2.2 | 20 | 0.4 | 6 | 1.4 | N | 113*218*20 |
| QPD16-600-6000-30-S | 0.6~6 | 30 | 4.5 | 18 | 0.4 | 6 | 1.5 | SMA | 140*232*12 |
| QPD16-700-3000-30-S | 0.7~3 | 30 | 1.4 | 20 | 0.3 | 5 | 1.4 | SMA | 212*104*12 |
| QPD16-700-3000-30-N | 0.7~3 | 30 | 1.8 | 20 | 0.4 | 6 | 1.4 | N | 388*110*20 |
| QPD16-700-4000-30-S | 0.7~4 | 30 | 2.4 | 18 | 0.4 | 8 | 1.4 | SMA | 232*110*12 |
| QPD16-700-4000-30-T | 0.7~4 | 30 | 2.2 | 20 | 0.4 | 6 | 1.4 | TNC | 388*110*20 |
| QPD16-700-6000-30-N | 0.7~6 | 30 | 3.8 | 18 | 0.5 | 8 | 1.5 | N | 388*110*20 |
| QPD16-700-6000-30-T | 0.7~6 | 30 | 3.5 | 20 | 0.5 | | | TNC | 388*110*20 |
| QPD16-800-5000-50-N | 0.8~5 | 50 | 3.5 | 18 | 0.4 | 6 | 1.4 | N | 480*160*22 |
| QPD16-950-2150-30-S | 0.95~2.15 | 30 | 1.2 | 25 | 0.3 | 4 | 1.3 | SMA | 90*214*12 |
| QPD16-1000-2000-30-S | 1~2 | 30 | 1.2 | 25 | 0.3 | 4 | 1.3 | SMA | 90*214*12 |
| QPD16-1000-4000-30-SN | 1~4 | 30 | 1.6 | 20 | 0.4 | 5 | 1.4 | SMA&N | 100*224*20 |
| QPD16-1000-6000-30-S | 1~6 | 30 | 2.5 | 20 | 0.5 | 6 | 1.45 | SMA | 100*236*12 |
| QPD16-1000-18000-20-S | 1~18 | 20 | 6.5 | 15 | 1.8 | 12 | 2 | SMA | 126*315.5*10 |
| QPD16-1100-1600-N | 1.1~1.6 | - | - | 20 | 0.4 | 6 | 1.8 | N | 110*388*20 |
| QPD16-1500-5000-30-S | 1.5~5 | 30 | 2.0 | 18 | 0.2 | 2 | 1.3 | SMA | 218*80*12 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (\pm dB, max.) | Phase Bal. (\pm° , max.) | VSWR (max.) | Connector | Size (mm) |
|-----------------------|-------------|-----------|---------------------------|----------------------|----------------------------------|----------------------------------|-------------|-----------|-------------|
| QPD16-2000-3000-30-S | 2~3 | 30 | 1.2 | 20 | 0.2 | 2 | 1.3 | SMA | 212*67*10 |
| QPD16-2000-4000-30-S | 2~4 | 30 | 0.6 | 18 | 0.3 | 5 | 1.35 | SMA | 215*130*10 |
| QPD16-2000-4000-50-S | 2~4 | 50 | 0.6 | 16 | 3 | 5 | 1.35 | SMA | 241*164*10 |
| QPD16-2000-6000-30-S | 2~6 | 30 | 2.0 | 18 | 0.2 | 2 | 1.3 | SMA | 218*80*12 |
| QPD16-2000-18000-20-S | 2~18 | 20 | 5.0 | 15 | 0.7 | 10 | 2 | SMA | 120*215*10 |
| QPD16-2490-2690-30-S | 2.49~2.69 | 30 | 1.0 | 20 | 0.3 | 4 | 1.25 | SMA | 70*212*12 |
| QPD16-2610-3000-30-S | 2.61~3 | 30 | 1.0 | 20 | 0.3 | 4 | 1.3 | SMA | 67*212*12.5 |
| QPD16-5000-12000-20-S | 5~12 | 20 | 4.0 | 16 | 0.7 | 10 | 1.8 | SMA | 82*215*10 |
| QPD16-5000-18000-20-S | 5~18 | 20 | 5.0 | 15 | 0.7 | 10 | 2 | SMA | 120*215*10 |
| QPD16-6000-18000-20-S | 6~18 | 20 | 1.8 | 17 | 0.8 | 4 | 1.6 | SMA | 60*212*10 |
| QPD16-8000-12000-20-S | 8~12 | 20 | 1.8 | 18 | 0.5 | 6 | 1.5 | SMA | 212*85*10 |

*Size: Exclude connectors.



Environmental
 Operation Temperature: -35~+75°C
 Impedance: 50Ω

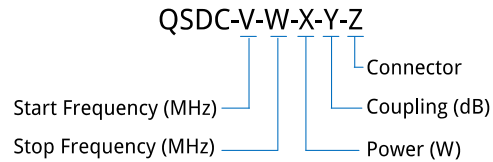
| Part Number | Ways | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connect or | Size (mm) |
|-----------------------|---------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|------------|--------------|
| QPD5-0-3000-2-S | 5 Way | DC~3 | 2 | 17.5 | 15 | 0.8 | - | 1.25 | SMA | 25.4*29.3*16 |
| QPD5-2000-4000-20-S | | 2~4 | 20 | 1.0 | 18 | 0.8 | 8 | 1.3 | SMA | 100*80*12 |
| QPD5-2400-2700-50-S | | 2.4~2.7 | 50 | 1.2 | 18 | 0.6 | 6 | 1.4 | SMA | 130*92*16 |
| QPD10-500-6000-30-S | 10 Way | 0.5~6 | 30 | 5.8 | 18 | 1.5 | 12 | 1.5 | SMA | 200*150*12 |
| QPD10-600-6000-30-S | | 0.6~6 | 30 | 3.5 | 18 | 0.8 | 12 | 1.5 | SMA | 150*148*12 |
| QPD10-2000-30-S | | 2 | 30 | 0.8 | 20 | 0.2 | 2 | 1.3 | SMA | 130*150*12 |
| QPD11-0-1000-2-N | 11 Way | DC~1 | 2 | 20.0±1.5 | 20 | 0.5 | - | 1.3 | N | 78.4*78.4*18 |
| QPD12-0-5000-2-S | 12 Way | DC~5 | 2 | 24.5 | 20 | 0.9 | 9 | 1.3 | SMA | 178*70*12.5 |
| QPD12-240-30-S | | 0.24 | 30 | 0.8 | 20 | 0.5 | 4 | 1.3 | SMA | 280*152*14 |
| QPD12-500-8000-20-S | | 0.5~8 | 20 | 5.0 | 16 | 1.2 | 12 | 1.6 | SMA | 286*180*12 |
| QPD12-600-6000-30-S | | 0.6~6 | 30 | 5.0 | 18 | 1 | 12 | 1.5 | SMA | 180*178*12 |
| QPD12-700-6000-30-S | | 0.7~6 | 30 | 4.3 | 16 | 1 | 20 | 1.6 | SMA | 272*106*10 |
| QPD12-1000-2000-30-N | | 1~2 | 30 | 1.5 | 20 | 0.5 | 6 | 1.4 | N | 300*100*20 |
| QPD12-2000-6000-30-S | | 2~6 | 30 | 2.2 | 18 | 0.8 | 10 | 1.5 | SMA | 156*92*10 |
| QPD12-2000-8000-30-S | | 2~8 | 30 | 1.6 | 18 | 0.6 | 6 | 1.45 | SMA | 156*92*10 |
| QPD12-2000-18000-20-S | | 2~18 | 20 | 4.2 | 15 | 0.8 | 12 | 2 | SMA | 230*120*10 |
| QPD12-4900-5200-30-S | | 4.9~5.2 | 30 | 1.0 | 20 | 0.6 | 3 | 1.4 | SMA | 156*92*10 |
| QPD12-5000-6000-20-S | | 5~6 | 20 | 1.6 | 20 | 0.25 | 5 | 1.22 | SMA | 156*92*10 |
| QPD12-5800-20-S | | 5.8 | 20 | 1.6 | 20 | 0.5 | 6 | 1.4 | SMA | 156*92*10 |
| QPD12-6000-18000-20-S | | 6~18 | 20 | 2.0 | 16 | 0.6 | 8 | 1.8 | SMA | 154*76*10 |
| QPD12-8000-12000-20-S | | 8~12 | 20 | 1.5 | 16 | 0.6 | 8 | 1.7 | SMA | 154*76*10 |
| QPD18-700-4000-30-S | | 18 Way | 0.7~4 | 30 | 3.0 | 18 | 1 | 12 | 1.5 | SMA |
| QPD18-900-1300-30-S | 0.9~1.3 | | 30 | 1.0 | 18 | 0.5 | 3 | 1.5 | SMA | 210*263*14 |
| QPD18-1000-2000-30-S | 1~2 | | 30 | 2.4 | 18 | 0.1 | 12 | 1.5 | SMA | 185*263*14 |
| QPD24-20-480-1-S | 24 Way | 0.02~0.48 | 1 | 2.4 | 16 | 1 | 12 | 1.6 | SMA | 348*115*14 |
| QPD24-315-433-30-S | | 0.315~0.433 | 30 | 1.2 | 20 | 0.8 | 8 | 1.4 | SMA | 498*164*14 |
| QPPD24-500-3000-20-S | | 0.3~3 | 20 | 2.8 | 18 | 0.8 | 8 | 1.5 | SMA | 200*344*12 |
| QPD24-1300-1600-20-S | | 1.3~1.6 | 20 | 1.4 | 20 | 0.5 | 6 | 1.35 | SMA | 348*115*14 |
| QPD32-400-490-30-S | 32 Way | 0.4~0.49 | 30 | 1.6 | 22 | 0.3 | 3 | 1.25 | SMA | 482*185*15 |
| QPD32-700-3000-30-S | | 0.7~0.3 | 30 | 2.0 | 18 | 0.4 | 5 | 1.4 | SMA | 427*120*12 |
| QPD32-700-4000-50-N | | 0.7~4 | 50 | 2.8 | 18 | 0.5 | 8 | 1.5 | N | 580*444*20 |
| QPD32-1000-2000-30-S | | 1~2 | 30 | 1.4 | 18 | 0.5 | 5 | 1.4 | SMA | 456*90*14 |
| QPD32-1000-4000-K1-N | | 1~4 | 100 | 2.2 | 18 | 0.5 | 8 | 1.5 | N | 580*444*20 |

*Size: Exclude connectors.

Description

Single directional coupler can be used to monitor and control the output power and frequency spectrum of transmitter. It can also be used as a power meter with detector and level indicator.

Features: Broadband, High Power, Low Insertion Loss; **Applications:** Power Amplifier, Transmitter, Radar, Laboratory Test.



*Operating Temperature: 0~+50°C

*Non-operating Temperature: -20~+70°C

*Impedance: 50Ω

| Part Number | Freq. (GHz) | Power (W) | Coupling (dB) | Insertion Loss (dB, max.) | Directivity (dB, min.) | VSWR (max.) | Connector | Size (mm) |
|------------------------|--------------|-----------|---------------|---------------------------|------------------------|-------------|-----------|------------------|
| QSDC-0.01-250-K6-50-NS | 0.00001~0.25 | 600 | 50±1 | 0.4 | 20 | 1.25 | SMA&N | 256.4*52*80 |
| QSDC-1-10-K15-20-S | 0.001~0.01 | 150 | 20±0.5 | 0.2 | 20 | 1.2 | SMA | 50.8*50*22.35 |
| QSDC-20-1000-50-20-S | 0.02~1 | 50 | 20±1.5 | 0.65 | 20 | 1.5 | SMA | 50.8*51*22.35 |
| QSDC-30-1000-50-20-S | 0.03~1 | 50 | 20±1.5 | 0.65 | 18 | 1.5 | SMA | 50.8*51*22.35 |
| QSDC-80-1000-K25-40-S | 0.08~1 | 250 | 40±1 | 0.3 | 16 | 1.15 | SMA | 50.8*51*22.35 |
| QSDC-80-1000-K6-60-NS | 0.08~1 | 600 | 60±1 | 0.4 | 20 | 1.2 | SMA&N | 152.4*30*80 |
| QSDC-100-700-10-10-S | 0.1~0.7 | 10 | 10±2 | 0.9 | 12 | 1.3 | SMA | 250*66*15 |
| QSDC-130-470-50-6-S | 0.13~0.47 | 50 | 6±1.2 | 0.7 | 20 | 1.25 | SMA | 412*15*11 |
| QSDC-200-2000-50-30-S | 0.2~2 | 50 | 30±1.5 | 0.8 | 15 | 1.3 | SMA | 270*20*11 |
| QSDC-300-800-50-30-S | 0.3~0.8 | 50 | 30±1 | 0.3 | 10 | 1.2 | SMA | 180*15*11 |
| QSDC-300-2400-30-10-S | 0.3~2.4 | 30 | 10 | 1.0 | 18 | 1.3 | SMA | 115*15.5*11 |
| QSDC-300-2400-30-20-S | 0.3~2.4 | 30 | 20 | 1.0 | 18 | 1.3 | SMA | 115*15.5*11 |
| QSDC-300-2400-30-30-S | 0.3~2.4 | 30 | 30 | 1.0 | 18 | 1.3 | SMA | 115*15.5*11 |
| QSDC-300-4000-50-30-S | 0.3~4 | 50 | 30±1.5 | 1.0 | 12 | 1.4 | SMA | 186*20*11 |
| QSDC-300-8000-20-20-S | 0.3~8 | 20 | 20±1 | 1.3 | 18 | 1.35 | SMA | 152.4*18.54*12.7 |
| QSDC-400-1560-30-10-S | 0.4~1.56 | 30 | 10±1.5 | 1.1 | 20 | 1.3 | SMA | 115*15.5*11 |
| QSDC-400-2700-K4-40-N | 0.4~2.7 | 400 | 40±1.2 | 0.4 | 20 | 1.2 | N | 158*53*26 |
| QSDC-400-3000-10-20-S | 0.4~3 | 10 | 20±1 | 0.5 | 20 | 1.3 | SMA | 149*25*14 |
| QSDC-400-3000-K3-50-S | 0.4~3 | 300 | 50±2.5 | 0.5 | 20 | 1.2 | SMA | 150*25*10 |
| QSDC-400-3900-K1-20-N | 0.4~3.9 | 100 | 20±2 | 0.5 | 17 | 1.2 | SMA&N | 99*42*22.5 |
| QSDC-400-18000-50-10-S | 0.4~18 | 50 | 10±1.5 | 1.5 | 10 | 1.8 | SMA | 113*15*11 |
| QSDC-400-18000-50-20-S | 0.4~18 | 50 | 20±1.5 | 1.5 | 10 | 1.8 | SMA | 113*15*11 |
| QSDC-400-20000-10-20-S | 0.4~20 | 10 | 20±1.5 | 1.5 | 8 | 1.5 | SMA | 137*15.5*11 |
| QSDC-450-2500-50-6-S | 0.45~2.5 | 50 | 6±1 | 0.8 | 18 | 1.2 | SMA | 112*17*11 |
| QSDC-450-6000-30-10-S | 0.45~6 | 30 | 10 | 1.2 | 12 | 1.5 | SMA | 115*16*11 |
| QSDC-450-6000-30-20-S | 0.45~6 | 30 | 20 | 1.2 | 12 | 1.5 | SMA | 115*16*11 |
| QSDC-450-6000-30-30-S | 0.45~6 | 30 | 30 | 1.2 | 12 | 1.5 | SMA | 115*16*11 |
| QSDC-500-1000-30-10-S | 0.5~1 | 30 | 10 | 0.4 | 20 | 1.3 | SMA | 120*26*14 |
| QSDC-500-1000-30-20-S | 0.5~1 | 30 | 20 | 0.4 | 20 | 1.3 | SMA | 120*26*14 |
| QSDC-500-1000-30-30-S | 0.5~1 | 30 | 30 | 0.4 | 20 | 1.3 | SMA | 120*26*14 |
| QSDC-500-2000-10-15-S | 0.5~2 | 15 | 15±1 | 1.0 | 18 | 1.3 | SMA | 137*15.5*11 |
| QSDC-500-2000-30-10-S | 0.5~2 | 30 | 10 | 0.8 | 20 | 1.25 | SMA | 106*15.5*11 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Power (W) | Coupling (dB) | Insertion Loss (dB, max.) | Directivity (dB, min.) | VSWR (max.) | Connector | Size (mm) |
|--------------------------|-------------|-----------|---------------|---------------------------|------------------------|-------------|-----------|--------------------|
| QSDC-500-2000-30-20-S | 0.5~2 | 30 | 20 | 0.4 | 20 | 1.25 | SMA | 106*15.5*11 |
| QSDC-500-2000-30-30-S | 0.5~2 | 30 | 30 | 0.3 | 20 | 1.25 | SMA | 106*15.5*11 |
| QSDC-500-3000-K5-60-NS | 0.5~3 | 500 | 60±2 | 0.4 | 16 | 1.4 | SMA&N | 50*44*26 |
| QSDC-500-6000-50-20-S | 0.5~6 | 50 | 20±1 | 0.6 | 18 | 1.25 | SMA | 113*15*11 |
| QSDC-500-6000-K2-40-N | 0.5~6 | 200 | 40±2 | 0.6 | 15 | 1.5 | N | 38.1*38.1*27.6 |
| QSDC-500-6000-K3-40-N | 0.5~6 | 300 | 40±2 | 0.6 | 15 | 1.5 | N | 38.1*38.1*27.6 |
| QSDC-500-8000-50-10-S | 0.5~8 | 50 | 10±1 | 1.2 | 15 | 1.4 | SMA | 113*15*11 |
| QSDC-500-8000-50-20-S | 0.5~8 | 50 | 20±1 | 1.2 | 12 | 1.5 | SMA | 113*15*11 |
| QSDC-500-18000-20-20-S | 0.5~18 | 20 | 20±1.5 | 2.0 | 10 | 1.7 | SMA | 115*16*11 |
| QSDC-500-18000-30-10-S | 0.5~18 | 30 | 10 | 1.8 | 10 | 1.7 | SMA | 115*16*11 |
| QSDC-500-18000-30-20-S | 0.5~18 | 30 | 20 | 1.8 | 10 | 1.7 | SMA | 115*16*11 |
| QSDC-500-18000-30-30-S | 0.5~18 | 30 | 30 | 1.8 | 10 | 1.7 | SMA | 115*16*11 |
| QSDC-500-18000-50-20-N | 0.5~18 | 50 | 20±0.6 | 1.0 | 15 | 1.4 | N | 116.5*23*17.5 |
| QSDC-600-3000-K2-20-NS | 0.6~3 | 200 | 20±1.2 | 0.7 | 16 | 1.35 | SMA&N | 120*26*22 |
| QSDC-600-3000-K5-40-NS | 0.6~3 | 500 | 40±1 | 0.35 | 16 | 1.5 | SMA&N | 80*40*22 |
| QSDC-600-6000-50-10-S | 0.6~6 | 50 | 10±1 | 1.0 | 15 | 1.3 | SMA | 112*17*12.7 |
| QSDC-600-6000-50-30-S | 0.6~6 | 50 | 30±1 | 0.5 | 15 | 1.3 | SMA | 100*15*11 |
| QSDC-700-6000-50-20-N | 0.7~6 | 50 | 20±1 | 0.7 | 16 | 1.3 | N | 125*20*20 |
| QSDC-800-2500-K2-20-N | 0.8~2.5 | 200 | 20±1 | 0.3 | 18 | 1.25 | N | 170.7*43*20 |
| QSDC-800-2700-50-10-S | 0.8~2.7 | 50 | 10±1 | 1.0 | 18 | 1.2 | SMA | 112*17*12.7 |
| QSDC-800-6000-K4-20-NS | 0.8~6 | 400 | 20±1 | 0.5 | 14 | 1.5 | SMA&N | 80*40*22 |
| QSDC-910-920-K3-30-S | 0.91~0.92 | 300 | 30±0.5 | 0.2 | 20 | 1.2 | SMA | 50*20*10 |
| QSDC-1000-4000-20-10-S | 1~4 | 20 | 10±1 | 0.6 | 20 | 1.3 | SMA | 73*15*11 |
| QSDC-1000-4000-30-10-S | 1~4 | 30 | 10 | 1.0 | 20 | 1.3 | SMA | 73*15*11 |
| QSDC-1000-4000-30-20-S | 1~4 | 30 | 20 | 1.0 | 20 | 1.3 | SMA | 73*15*11 |
| QSDC-1000-4000-30-30-S | 1~4 | 30 | 30 | 0.5 | 20 | 1.3 | SMA | 73*15*11 |
| QSDC-1000-4000-50-10-S | 1~4 | 50 | 10±1 | 0.8 | 20 | 1.3 | SMA | 73*15*11 |
| QSDC-1000-4000-50-20-S | 1~4 | 50 | 20±1 | 0.4 | 20 | 1.3 | SMA | 73*15*11 |
| QSDC-1000-4000-50-10-N | 1~4 | 50 | 10±1 | 0.8 | 20 | 1.3 | N | 83*20*10 |
| QSDC-1000-4000-50-20-N | 1~4 | 50 | 20±1 | 0.4 | 20 | 1.3 | N | 83*20*10 |
| QSDC-1000-6000-K1-10-N | 1~6 | 100 | 10±0.8 | 0.7 | 10 | 1.4 | SMA | 100*24*22 |
| QSDC-1000-6000-K1-10-N | 1~6 | 100 | 10±0.8 | 0.7 | 10 | 1.4 | SMA | 100*24*22 |
| QSDC-1000-6000-K3-30-NS | 1~6 | 300 | 30±1.5 | 0.6 | 16 | 1.35 | SMA&N | 100*26*22 |
| QSDC-1000-8000-30-30-S | 1~8 | 30 | 30±1.2 | 0.8 | 15 | 1.5 | SMA | 73*15*11 |
| QSDC-1000-18000-30-10-S | 1~18 | 30 | 10 | 1.5 | 10 | 1.6 | SMA | 90*15.5*11 |
| QSDC-1000-18000-30-20-S | 1~18 | 30 | 20 | 1.5 | 10 | 1.6 | SMA | 90*15.5*11 |
| QSDC-1000-18000-30-30-S | 1~18 | 30 | 30 | 1.5 | 10 | 1.6 | SMA | 90*15.5*11 |
| QSDC-1000-26500-30-20-S | 1~26.5 | 30 | 20±1.5 | 2.2 | 10 | 1.7 | SMA | 84*15*11 |
| QSDC-1000-40000-30-10-K | 1~40 | 30 | 10±1.2 | 2.8 | 10 | 1.7 | 2.92mm | 84*15*11 |
| QSDC-1000-40000-30-16-K | 1~40 | 30 | 16±1.5 | 2.6 | 10 | 1.7 | 2.92mm | 84*15*11 |
| QSDC-1000-40000-30-20-K | 1~40 | 30 | 20±1.2 | 2.8 | 10 | 1.7 | 2.92mm | 84*15*12.7 |
| QSDC-1000-44000-1-10-2M2 | 1~44 | 1 | 10 | 2.5 | 10 | 2 | 2.4mm | 90.17*18.542*13.46 |

*Size: Exclude connectors

| Part Number | Freq. (GHz) | Power (W) | Coupling (dB) | Insertion Loss (dB, max.) | Directivity (dB, min.) | VSWR (max.) | Connector | Size (mm) |
|--------------------------|-------------|-----------|---------------|---------------------------|------------------------|-------------|-----------|--------------|
| QSDC-1000-67000-20-10-V | 1~67 | 20 | 10±3.5 | 3.8 | 8 | 1.9 | 1.85mm | 62.9*16*12.7 |
| QSDC-1290-1310-70-6-N | 1.29~1.31 | 70 | 6±1 | 1.8 | 20 | 1.3 | N | 120*40*16.5 |
| QSDC-1290-1310-70-10-N | 1.29~1.31 | 70 | 10±1 | 0.8 | 20 | 1.3 | N | 120*40*16.5 |
| QSDC-2000-2500-K5-40-NS | 2~2.5 | 500 | 40±2 | 0.4 | 15 | 1.4 | N&SMA | 44*26*22 |
| QSDC-2000-4000-50-10-S | 2~4 | 50 | 10±1 | 1.0 | 18 | 1.3 | SMA | 43*15*11 |
| QSDC-2000-4000-50-20-S | 2~4 | 50 | 20±1 | 0.4 | 18 | 1.3 | SMA | 53*20*20 |
| QSDC-2000-4000-50-30-S | 2~4 | 50 | 30±1 | 0.4 | 18 | 1.3 | SMA | 43*15*11 |
| QSDC-2000-4000-50-10-N | 2~4 | 50 | 10±1 | 1.0 | 18 | 1.3 | N | 43*15*11 |
| QSDC-2000-4000-50-20-N | 2~4 | 50 | 20±1 | 0.4 | 18 | 1.3 | N | 53*20*20 |
| QSDC-2000-4000-50-30-N | 2~4 | 50 | 30±1 | 0.4 | 18 | 1.3 | N | 43*15*11 |
| QSDC-2000-4000-K3-20-NS | 2~4 | 300 | 20±1 | 0.4 | 18 | 1.35 | SMA&N | 44*26*22 |
| QSDC-2000-4000-K4-40-N | 2~4 | 400 | 40±1.5 | 0.5 | 10 | 1.3 | SMA | 50*50*19.5 |
| QSDC-2000-4000-K5-50-NS | 2~4 | 500 | 50±1.5 | 0.8 | 20 | 1.25 | SMA&N | 44*26*22 |
| QSDC-2000-8000-50-6-S | 2~8 | 50 | 6±1 | 0.2 | 18 | 1.3 | SMA | 43*15*11 |
| QSDC-2000-8000-50-10-S | 2~8 | 50 | 10±1 | 1.2 | 16 | 1.3 | SMA | 43*15*11 |
| QSDC-2000-8000-50-30-S | 2~8 | 50 | 30±1 | 0.4 | 20 | 1.2 | SMA | 43*15*11 |
| QSDC-2000-8000-K5-30-NS | 2~8 | 500 | 30±1 | 0.6 | 14 | 1.5 | SMA&N | 60*40*22 |
| QSDC-2000-12000-30-10-S | 2~12 | 30 | 10±1 | 1.1 | 12 | 1.5 | SMA | 51*16*11 |
| QSDC-2000-18000-30-10-S | 2~18 | 30 | 10 | 1.2 | 12 | 1.6 | SMA | 43*15*11 |
| QSDC-2000-18000-30-20-S | 2~18 | 30 | 20 | 1.0 | 12 | 1.6 | SMA | 43*15*11 |
| QSDC-2000-18000-30-30-S | 2~18 | 30 | 30 | 1.0 | 10 | 1.6 | SMA | 43*15*11 |
| QSDC-2000-18000-K2-50-NS | 2~18 | 200 | 50±2 | 0.6 | 10 | 1.6 | SMA&N | 86.7*30*43.4 |
| QSDC-2000-40000-30-10-K | 2~40 | 30 | 10±1.5 | 2 | 10 | 1.7 | 2.92mm | 48*15*11 |
| QSDC-2000-40000-30-16-K | 2~40 | 30 | 16±1.2 | 1.5 | 10 | 1.6 | 2.92mm | 48*15*11 |
| QSDC-2000-40000-30-20-K | 2~40 | 30 | 20±1.5 | 1.5 | 10 | 1.7 | 2.92mm | 48*15*11 |
| QSDC-2000-67000-10-16-V | 2~67 | 10 | 16±1.4 | 3.5 | 8 | 2 | 1.85mm | 62.9*15*11 |
| QSDC-2000-67000-10-16-V | 2~67 | 10 | 16±1.4 | 3.5 | 8 | 2 | 1.85mm | 62.9*15*11 |
| QSDC-2300-2600-K5-40-NS | 2.3~2.6 | 500 | 40±0.5 | 0.4 | 20 | 1.25 | N&SMA | 44*26*22 |
| QSDC-2500-6000-50-6-S | 2.5~6 | 50 | 6±1 | 0.8 | 20 | 1.2 | SMA | 43*15*11 |
| QSDC-3000-6000-10-20-S | 3~6 | 10 | 20±1 | 0.5 | 18 | 1.3 | SMA | 43*15*11 |
| QSDC-3400-4200-50-30-S | 3.4~4.2 | 50 | 30±1 | 0.5 | 15 | 1.3 | SMA | 43*15*11 |
| QSDC-3500-4500-10-20-S | 3.5~4.5 | 10 | 20±1 | 0.5 | 20 | 1.3 | SMA | 43*15*11 |
| QSDC-3800-4300-50-20-N | 3.8~4.3 | 50 | 20±1 | 0.5 | 20 | 1.3 | N | 53*20*20 |
| QSDC-4000-6000-K4-40-SN | 4~6 | 400 | 40±1.5 | 0.6 | 10 | 1.3 | SMA&N | 50*50*19.5 |
| QSDC-4000-8000-50-10-S | 4~8 | 50 | 10±1 | 1.0 | 16 | 1.3 | SMA | 43*15*11 |
| QSDC-4000-12000-50-6-S | 4~12 | 50 | 6±1 | 1.2 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-4000-16000-30-10-S | 4~16 | 30 | 10±1.2 | 1.2 | 12 | 1.5 | SMA | 43*15*11 |
| QSDC-4000-18000-20-10-S | 4~18 | 20 | 10±1 | 1.0 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-4000-18000-20-20-S | 4~18 | 20 | 20±1 | 1.0 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-4000-18000-20-30-S | 4~18 | 20 | 30±1 | 1.0 | 10 | 1.5 | SMA | 33*15*11 |
| QSDC-4000-30000-30-20-K | 4~30 | 30 | 20±1 | 1.5 | 12 | 1.6 | 2.92mm | 48*15*11 |
| QSDC-6000-18000-20-30-S | 6~18 | 20 | 30±1 | 1.0 | 10 | 1.5 | SMA | 33*15*11 |

*Size: Exclude connectors.

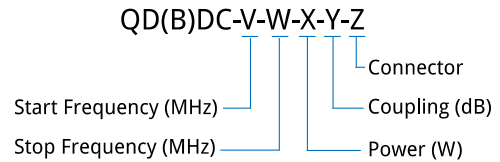
| Part Number | Freq. (GHz) | Power (W) | Coupling (dB) | Insertion Loss (dB, max.) | Directivity (dB, min.) | VSWR (max.) | Connector | Size (mm) |
|--------------------------|-------------|-----------|---------------|---------------------------|------------------------|-------------|-----------|-----------|
| QSDC-6000-18000-30-20-S | 6~18 | 30 | 20±1 | 1.0 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-6000-18000-50-10-S | 6~18 | 50 | 10±1 | 1.0 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-6000-18000-50-20-S | 6~18 | 50 | 20±1 | 0.6 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-6000-18000-50-30-S | 6~18 | 50 | 30±1 | 0.6 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-6000-18200-30-6-S | 6~18.2 | 30 | 6±1 | 1.2 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-6000-18200-30-10-S | 6~18.2 | 30 | 10±1 | 1 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-6000-18200-30-30-S | 6~18.2 | 30 | 30±1 | 0.6 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-6500-11500-20-20-S | 6.5~11.5 | 20 | 20±1 | 1.0 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-7000-7300-60-30-S | 7~7.3 | 60 | 30±1 | 0.5 | 16 | 1.5 | SMA | 33*15*11 |
| QSDC-7000-12400-30-10-S | 7~12.4 | 30 | 10±1 | 1.2 | 15 | 1.3 | SMA | 33*15*11 |
| QSDC-7000-12400-30-20-S | 7~12.4 | 30 | 20±1 | 1.2 | 15 | 1.3 | SMA | 33*15*11 |
| QSDC-8000-8400-20-10-N | 8~8.4 | 20 | 10±1 | 1.0 | 12 | 1.6 | N | 47*22*19 |
| QSDC-8000-8400-20-20-N | 8~8.4 | 20 | 20±1 | 1.0 | 12 | 1.6 | N | 47*22*19 |
| QSDC-8000-12000-40-15-S | 8~12 | 40 | 15±1 | 0.8 | 12 | 1.5 | SMA | 43*15*11 |
| QSDC-8000-12000-K1-30-N | 8~12 | 100 | 30±1 | 0.4 | 10 | 1.4 | N | 60*30*24 |
| QSDC-10750-12750-50-30-S | 10.75~12.75 | 50 | 30±1 | 0.5 | 15 | 1.4 | SMA | 33*15*11 |
| QSDC-12000-13000-10-6-S | 12~13 | 10 | 6±1 | 0.8 | 12 | 1.5 | SMA | 56*15*11 |
| QSDC-12000-18000-50-30-S | 12~18 | 50 | 30±1 | 1.0 | 12 | 1.5 | SMA | 33*15*11 |
| QSDC-12400-18000-50-10-S | 12.4~18 | 50 | 10±1 | 0.8 | 12 | 1.4 | SMA | 33*15*11 |
| QSDC-12400-18000-50-20-S | 12.4~18 | 50 | 20±1 | 0.8 | 12 | 1.4 | SMA | 33*15*11 |
| QSDC-14000-15000-50-10-S | 14~15 | 50 | 10±1 | 0.6 | 15 | 1.4 | SMA | 33*15*11 |
| QSDC-14000-15000-50-20-S | 14~15 | 50 | 20±1 | 0.6 | 15 | 1.4 | SMA | 33*15*11 |
| QSDC-18000-31000-30-20-K | 18~31 | 30 | 20±1 | 1.4 | 12 | 1.6 | 2.92mm | 26*15*11 |
| QSDC-18000-40000-20-10-K | 18~40 | 20 | 10±1 | 1.6 | 10 | 1.6 | 2.92mm | 26*15*11 |
| QSDC-18000-40000-20-20-K | 18~40 | 20 | 20±1 | 1.6 | 10 | 1.6 | 2.92mm | 26*15*11 |
| QSDC-18000-40000-20-30-K | 18~40 | 20 | 30±1 | 1.6 | 10 | 1.6 | 2.92mm | 28*15*11 |
| QSDC-20000-50000-10-10-2 | 20~50 | 10 | 10±1.2 | 1.8 | 10 | 1.9 | 2.4mm | 26*15*11 |
| QSDC-20000-50000-10-20-2 | 20~50 | 10 | 20±1.2 | 1.6 | 10 | 1.9 | 2.4mm | 26*15*11 |
| QSDC-20000-50000-10-30-2 | 20~50 | 10 | 30±1.2 | 1.2 | 8 | 1.9 | 2.4mm | 26*15*11 |
| QSDC-26000-30000-20-20-K | 26~30 | 20 | 20±1 | 1.4 | 12 | 1.6 | 2.92mm | 26*15*11 |

*Size: Exclude connectors.

Description

Dual directional coupler is a kind of four port RF device, which is the key device in microwave measurement such as reflectometer and RF network analyzer. It can be used to monitor the output power and frequency spectrum of the transmitter, test the reflected power from the transmitter to the antenna, monitor the matching of the antenna feeder system, and also be used for the power control of the transmitter. With detector and level indicator, it can be used as power meter.

Features: Broadband, High Power, Low Insertion Loss; **Applications:** Power Amplifier, Transmitter, Radar, Laboratory Test.



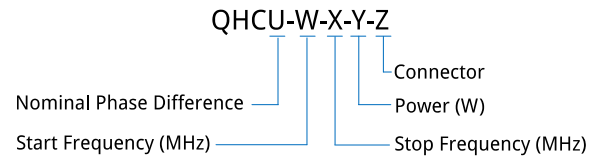
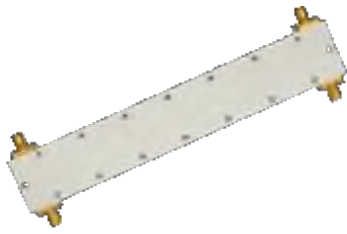
| Part Number | Freq. (GHz) | Power (W) | Coupling (dB) | Insertion Loss (dB, max.) | Directivity (dB, min.) | VSWR (max.) | Connector | Size (mm) |
|---------------------------|--------------|-----------|---------------|---------------------------|------------------------|-------------|-----------|------------------|
| QBDC-2000-4000-K4-40-NS | 2-4 | 400 | 40±1.5 | 0.5 | 10 | 1.3 | SMA&N | 50*50*22.6 |
| QBDC-4000-6000-K4-40-NS | 4-6 | 400 | 40±1.5 | 0.6 | 10 | 1.3 | SMA&N | 50*50*22.6 |
| QDDC-0.1-1000-K1-40-NS | 0.0001~1 | 100 | 40±1.2 | 1 | 13 | 1.25 | SMA&N | 132*68*43 |
| QDDC-0.5-32-K2-30-N | 0.0005~0.032 | 200 | 30±1 | 0.2 | 20 | 1.1 | N | 51*50.8*22.35 |
| QDDC-1-10-K15-20-S | 0.001~0.01 | 150 | 20±0.5 | 0.2 | 20 | 1.2 | SMA | 51*50.8*22.35 |
| QDDC-2-32-1K-40-NS | 0.002~0.032 | 1000 | 40±1 | 0.5 | 20 | 1.2 | SMA&N | 120*50*30 |
| QDDC-20-1000-K15-50-S | 0.02~1 | 150 | 50±1 | 0.4 | 20 | 1.5 | SMA | 51*50.8*22.35 |
| QDDC-25-1000-1K-50-NS | 0.025~1 | 1000 | 50±1.5 | 0.5 | 15 | 1.2 | SMA&N | 120*55.9*30 |
| QDDC-80-1000-1K-50-NS | 0.08~1 | 1000 | 50±1 | 0.3 | 20 | 1.3 | SMA&N | 85*44*26 |
| QDDC-200-400-1K-40-NS | 0.2~0.4 | 1000 | 40±1 | 0.2 | 20 | 1.15 | SMA&N | 120*55.9*30 |
| QDDC-300-8000-20-20-S | 0.3~8 | 20 | 20±1 | 1.1 | 18 | 1.35 | SMA | 152.4*18.54*12.7 |
| QDDC-400-450-20-40-S | 0.4~0.45 | 20 | 40±1 | 0.3 | 20 | 1.3 | SMA | 288*27*15 |
| QDDC-400-2500-K5-50-NS | 0.4~2.5 | 500 | 50±1.2 | 0.3 | 18 | 1.3 | SMA&N | 85*44*26 |
| QDDC-600-2700-K8-50-NS | 0.6~2.7 | 800 | 50±1.2 | 0.3 | 20 | 1.3 | SMA&N | 85*44*26 |
| QDDC-700-6000-50-10-S | 0.7~6 | 50 | 10±1.2 | 2.2 | 12 | 1.4 | SMA | 202*16*11 |
| QDDC-700-6000-50-30-S | 0.7~6 | 50 | 30±1.5 | 1.2 | 10 | 1.4 | SMA | 202*16*11 |
| QDDC-700-6000-K5-35-NS | 0.7~6 | 500 | 35±1 | 0.5 | 12 | 1.7 | SMA&N | 92*38*25.4 |
| QDDC-1000-6000-40-10-S | 1~6 | 40 | 10±1 | 2.0 | 18 | 1.3 | SMA | 150*18*12 |
| QDDC-1000-6000-K1-40-N | 1~6 | 100 | 40±1.5 | 0.7 | 16 | 1.4 | N | 100*30*24 |
| QDDC-1000-6000-50-10-NS | 1~6 | 50 | 10±1 | 2.0 | 18 | 1.3 | SMA&N | 140*20*20 |
| QDDC-1000-6000-K5-40-NS | 1~6 | 500 | 40±1 | 0.5 | 12 | 1.7 | SMA&N | 92*38*25.4 |
| QDDC-1900-2200-50-10-NS | 1.9~2.2 | 50 | 10±1 | 1.5 | 20 | 1.2 | SMA&N | 140*20*20 |
| QDDC-2000-4000-10-10-S | 2~4 | 10 | 10±1 | 0.8 | 18 | 1.2 | SMA | 86*15*11 |
| QDDC-2000-4000-K5-50-NS | 2~4 | 500 | 50±1.5 | 0.4 | 20 | 1.25 | SMA&N | 44*26*22 |
| QDDC-2000-18000-20-40-S | 2~18 | 20 | 40±1.5 | 2.0 | 7 | 1.7 | SMA | 86*18*11 |
| QDDC-4000-6000-10-10-S | 4~6 | 10 | 10±1 | 0.8 | 18 | 1.2 | SMA | 86*15*11 |
| QDDC-6000-18000-70-40-S | 6~18 | 70 | 40±2.5 | 0.5 | 15 | 1.4 | SMA | 45*32*14 |
| QDDC-6000-18000-K25-40-NS | 6~18 | 250 | 40±1 | 0.5 | 10 | 1.7 | SMA&N | 38*37*25.4 |

*Size: Exclude connectors.

Description

Hybird Coupler can continuously sample the transmission power along a certain direction of the transmission line, and can divide an input signal into two equal amplitude signals with 90 degrees or 180 degrees phase difference.

Features: Broadband, High Power, Low Insertion Loss; **Applications:** Amplifiers, Transmitter, Radar, Laboratory Test.



Nominal Phase Difference: 180°(8), 90°(9)

Nominal Phase Difference: 90°

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connecto r | Size (mm) |
|-----------------------|-------------|-----------|---------------------------|----------------------|----------------------------|-----------------------|-------------|------------|-----------------|
| QHC9-68-72-10-N | 0.068~0.072 | 10 | 0.8 | 20 | 0.6 | 5 | 1.3 | N | 84*64*20 |
| QHC9-100-140-10-S | 0.1~0.14 | 10 | 0.5 | 18 | 0.7 | 5 | 1.3 | SMA | 67*60*13 |
| QHC9-225-400-50-S | 0.225~0.4 | 50 | 0.3 | 20 | 0.5 | 4 | 1.25 | SMA | 66*32*13 |
| QHC9-400-500-10-S | 0.4~0.5 | 10 | 0.5 | 20 | 0.5 | 3 | 1.3 | SMA | 62*26*13 |
| QHC9-400-650-K8-N | 0.4~0.65 | 800 | 0.5 | 16 | 0.6 | 5 | 1.35 | N | 410*102*36 |
| QHC9-500-1000-50-S | 0.5~1 | 50 | 0.3 | 22 | 0.5 | 2 | 1.25 | SMA | 84.5*13*11 |
| QHC9-500-3000-10-S | 0.5~3 | 10 | 1.1 | 20 | 0.9 | 7 | 1.3 | SMA | 153*25.4*11 |
| QHC9-1000-4000-30-S | 1~4 | 30 | 0.6 | 20 | 0.6 | 6 | 1.25 | SMA | 76*22*11 |
| QHC9-1000-7000-20-S | 1~7 | 20 | 0.9 | 18 | 0.4 | 4 | 1.4 | SMA | 74*25*11 |
| QHC9-1500-2500-30-S | 1.5~2.5 | 30 | 0.5 | 20 | 0.6 | 5 | 1.3 | SMA | 105*22*11 |
| QHC9-2000-8000-20-S | 2~8 | 20 | 0.8 | 18 | 0.8 | 8 | 1.4 | SMA | 60*25*11 |
| QHC9-2000-8000-60 | 2~8 | 60 | 0.8 | 17 | 1 | 8 | 1.5 | PIN | 60*25*11 |
| QHC9-2000-18000-30-S | 2~18 | 30 | 2.2 | 18 | 1 | 5 | 1.45 | SMA | 60*25*11 |
| QHC9-2000-40000-30-K | 2~40 | 30 | 2.8 | 10 | 1.5 | 12 | 2 | 2.92mm | 37*18*11 |
| QHC9-2400-2500-K5-N | 2.4~2.5 | 500 | 0.6 | 18 | 0.3 | 2.5 | 1.4 | N | 100*50*20 |
| QHC9-2700-3500-K5-N | 2.7~3.5 | 500 | 0.5 | 16 | 0.8 | 8 | 1.5 | N | - |
| QHC9-3200-4000-30-S | 3.2~4 | 30 | 0.5 | 20 | 0.6 | 2 | 1.3 | SMA | 45*17*11 |
| QHC9-5700-5900-30-S | 5.7~5.9 | 30 | 0.5 | 23 | 0.3 | 3 | 1.25 | SMA | 40*15*12 |
| QHC9-10750-12250-30-S | 10.75~12.25 | 30 | 0.8 | 16 | 0.7 | 8 | 1.5 | SMA | 22*34.7*11 |
| QHC9-18000-40000-30-K | 18~40 | 30 | 2.2 | 12 | 0.7 | 10 | 1.8 | 2.92mm | 25.4*16*11 |
| QHC9-26000-40000-30-K | 26~40 | 30 | 2.2 | 12 | 0.7 | 10 | 1.8 | 2.92mm | 25.4*16*11 |
| QSHC9-800-4200-K1 | 0.8~4.2 | 100 | 0.8 | 15 | 1 | 8 | 1.5 | SMD | 45.72*10.16*4.6 |
| QSHC9-1000-3000-K4 | 1~3 | 400 | 0.2 | 20 | 1 | 4 | 1.25 | SMD | 25.4*12.7*5.5 |
| QDHC9-100-520-K2 | 0.1~0.52 | 200 | 0.45 | 17 | 0.75 | 5 | 1.3 | Drop In | 83.82*38.1*7.32 |
| QDHC9-100-520-K8 | 0.1~0.52 | 800 | 0.42 | 16 | 0.75 | 5 | 1.3 | Drop In | 83.82*38.1*9.32 |

*Size: Exclude connectors.

Nominal Phase Difference: 180°

| Part Number | Freq. (GHz) | Power (W) | Insertion Loss (dB, max.) | Isolation (dB, min.) | Amplitude Bal. (±dB, max.) | Phase Bal. (±°, max.) | VSWR (max.) | Connector | Size (mm) |
|----------------------|----------------|--------------|------------------------------|-------------------------|-------------------------------|--------------------------|----------------|-----------|--------------|
| QHC8-106-176-30-S | 0.106~0.176 | 30 | 1.2 | 18 | 0.8 | 10 | 1.4 | SMA | 152*120*13 |
| QHC8-225-400-30-S | 0.225~0.4 | 30 | 1 | 18 | 0.8 | 10 | 1.4 | SMA | 96*96*13 |
| QHC8-1000-3000-2 | 1~3 | 2 | 1 | 18 | 0.7 | 10 | 1.4 | SMD | 67*46*10 |
| QHC8-1200-2700-10-S | 1.2~2.7 | 10 | 0.8 | 20 | 0.8 | 10 | 1.35 | SMA | 65*60*14 |
| QHC8-1500-2500-10-S | 0.15~0.25 | 10 | 0.5 | 20 | 0.6 | 5 | 1.4 | SMA | 64*60*13 |
| QHC8-2000-6000-30-S | 2~6 | 30 | 1.5 | 18 | 0.9 | 11 | 1.5 | SMA | 82*36*11 |
| QHC8-3200-4000-10-S | 3.2~4 | 10 | 0.5 | 18 | 0.6 | 5 | 1.4 | SMA | 60*45*13 |
| QHC8-4000-10000-30-S | 4~10 | 30 | 1.5 | 18 | 0.8 | 10 | 1.5 | SMA | 48*36*11 |

*Size: Exclude connectors.

Description

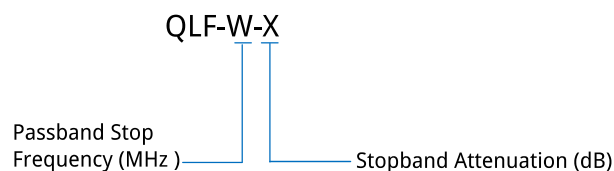
In various applications, it is often concerned to change the relative size of each frequency component in a signal, or eliminate all the requirements of some frequency components. Such a process is called filtering. The filter is widely used and has universal significance.



Low pass filter is a filter that attenuates or blocks a higher frequency through a lower frequency

Features: Broadband, High Power, Low Insertion Loss

Applications: Amplifiers, Broadcast, Communication, Laboratory Test.



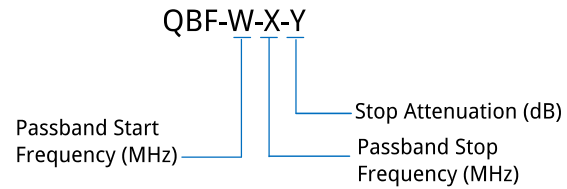
| Part Number | Passband (GHz) | IL (dB, max.) | VSWR (max.) | Stopband Attenuation (dB) | Connector |
|-----------------|----------------|---------------|-------------|---------------------------|-----------|
| QLF-200-2400-60 | 0.2~2.4 | 5 | 1.5 | 60@3.6GHz | SMA |
| QLF-2186-30 | 1.5~2.186 | 2 | 1.6 | 30@2.37~3GHz | SMA |
| QLF-2500-65 | DC~2.5 | 3 | 2 | 65@3-13GHz | N |
| QLF-2700-90 | DC~2.7 | 2 | 2 | 90@4.5-8.4GHz | SMA |
| QLF-4000-50 | DC~4 | 0.8 | 1.5 | 50@8GHz | SMA |
| QLF-4000-60 | DC~4 | 1.5 | 1.3 | 60@4.5~12.3GHz | SMA |
| QLF-4800-35 | DC~4.8 | 1.5 | 2 | 35@6GHz | SMA |
| QLF-5000-40 | DC~5 | 2 | 2 | 40@6-25GHz | SMA |
| QLF-6000-20 | 0.5~6 | 2 | 1.8 | 20@6.5GHz | SMA |
| QLF-6500-60 | DC~6.5 | 1.5 | 1.3 | 60@7.27~15.3GHz | SMA |
| QLF-8000-40 | DC~8 | 2 | 2 | 40@9~25GHz | SMA |
| QLF-9000-60 | DC~9 | 1 | 1.6 | 60@14~17GHz | SMA |
| QLF-10000-40 | DC~10 | 2 | 2 | 40@13-18GHz | SMA |
| QLF-11000-35 | DC~11 | 2 | 2 | 35@12GHz | 2.92mm |
| QLF-11500-45 | DC~11.5 | 2 | 2 | 45@12.8-13.3GHz | 2.92mm |
| QLF-11500-40 | DC~11.5 | 2 | 1.5 | 40@12.3-13.3GHz | 2.92mm |
| QLF-12000-40 | DC~12 | 2 | 2 | 40@13.5-25GHz | SMA |
| QLF-13000-40 | DC~13 | 1.5 | 2 | 40@15-25GHz | 2.92mm |
| QLF-15000-40 | DC~15 | 2 | 2 | 40@18-23GHz | 2.92mm |
| QLF-16000-40 | DC~16 | 2 | 2 | 40@18-25GHz | SMA |
| QLF-18000-40 | DC~18 | 2 | 2 | 40@20-38GHz | 2.92mm |
| QLF-18000-50 | DC~18 | 3 | 1.6 | 50@19.1-26GHz | SMA |
| QLF-20000-60 | DC~20 | 1 | 2 | 60@23~40GHz | 2.92mm |
| QLF-25000-40 | DC~25 | 2 | 2 | 40@28-30GHz | 2.92mm |
| QLF-28000-30 | DC~28 | 2 | 2 | 30@30-38GHz | 2.4mm |

Description

Band pass filter is a filter that passes through a certain frequency band and attenuates the frequency band that is both higher and lower than the one to pass through.

Features: Broadband, High Power, Low Insertion Loss

Applications: Amplifiers, Broadcast, Communication, Laboratory Test.



| Part Number | Passband (GHz) | IL (dB, Max.) | VSWR (Max.) | Stopband Attenuation (dB) | | Connectors |
|--------------------|----------------|---------------|-------------|---------------------------|---------------------|------------|
| QBF-40-100-30 | 0.04~0.1 | 1.5 | 1.5 | 30@DC~0.03GHz | 30@0.118~0.4GHz | SMA |
| QBF-50-250-30 | 0.05~0.25 | 1.2 | 1.8 | 30@DC~0.04GHz | 30@0.31~0.5GHz | SMA |
| QBF-110-170-30 | 0.11~0.17 | 2 | 1.5 | 30@DC~0.08GHz | 30@0.2~0.4GHz | SMA |
| QBF-245-355-25 | 0.245~0.235 | 2 | 1.5 | 38@DC~0.2GHz | 25@0.4~0.9GHz | SMA |
| QBF-273-277-50 | 0.273~0.277 | 2.5 | 2 | 50@DC~0.26GHz | 50@0.29~1GHz | SMD |
| QBF-300-600-30 | 0.3~0.6 | 1.8 | 1.5 | 30@0.26GHz | 30@0.65GHz | SMA |
| QBF-310-443-50 | 0.31~0.443 | 1 | 1.5 | 50@DC~0.1765GHz | 50@0.5765~1.5GHz | SMA |
| QBF-400-700-50 | 0.4~0.7 | 2.5 | 1.5 | 50@DC~0.3GHz | 50@0.85~1GHz | 2.92mm |
| QBF-430-450-30 | 0.43~0.45 | 1 | 1.22 | 30@DC~0.425GHz | 30@0.455~1GHz | SMA |
| QBF-497.5-502.5-40 | 0.4975~0.5025 | 1.2 | 1.22 | 40@DC~0.493GHz | 40@0.507~1GHz | SMA |
| QBF-585-615-60 | 0.585~0.615 | 0.5 | 2 | 60@0.45GHz | 60@0.75GHz | SMA |
| QBF-606-678-40 | 0.606~0.678 | 1.5 | 1.5 | 40@DC~0.5GHz | 30@0.825~3GHz | SMA |
| QBF-710-730-45 | 0.71~0.73 | 2.5 | 1.3 | 45@0.695GHz | 50@0.735GHz | SMA |
| QBF-800-1200-45 | 0.8~1.2 | 1 | 1.8 | 45@0.55GHz | 45@1.45GHz | SMA |
| QBF-800-1600-40 | 0.8~1.6 | 5 | 2.2 | 40@0.75GHz | 40@1.65GHz | SMA |
| QBF-818-918-45 | 0.818~0.918 | 3 | 1.5 | 45@0.668GHz | 45@1.068GHz | SMA |
| QBF-818-1000-45 | 0.818~1 | 3 | 1.5 | 45@0.709GHz | 45@1.109GHz | SMA |
| QBF-859-959-45 | 0.859~0.959 | 3 | 1.5 | 45@0.709GHz | 45@1.109GHz | SMA |
| QBF-860-880-60 | 0.86~0.88 | 1.5 | 1.5 | 60@DC~0.8375GHz | 60@0.9025~2GHz | SMA |
| QBF-890-910-60 | 0.89~0.91 | 1.5 | 1.5 | 60@DC~0.8675GHz | 60@0.9325~2GHz | SMA |
| QBF-920-940-60 | 0.92~0.94 | 1.5 | 1.5 | 60@DC~0.8975GHz | 60@0.9625~2GHz | SMA |
| QBF-1000-1700-50 | 1~1.7 | 1.7 | 1.7 | 50@DC~0.9GHz | 60@1.8~2.2GHz | 2.92mm |
| QBF-1050-2250-30 | 1.05~2.25 | 5 | 1.5 | 30@0.3GHz | 60@3GHz | SMA |
| QBF-1100-1600-50 | 1.1~1.6 | 2.5 | 1.5 | 50@0.9GHz | 50@1.8GHz | SMA |
| QBF-1200-1400-50 | 1.2~1.4 | 0.3 | 1.35 | 50@0.8GHz | 50@2~6GHz | N |
| QBF-1390-1410-80 | 1.39~1.41 | 2 | 1.3 | 80@1.35GHz | 80@1.47GHz | SMA |
| QBF-1400-1800-60 | 1.4~1.8 | 2 | 1.5 | 60@DC~1.3GHz | 60@1.9~3GHz | SMA |
| QBF-1500-1600-45 | 1.5~1.6 | 3 | 1.5 | 45@1.35GHz | 45@1.75GHz | SMA |
| QBF-1518-1553-40 | 1.518~1.553 | 3 | 1.5 | 40@0.1GHz | 40@0.5355&2.5355GHz | Pin |
| QBF-1640-1675-40 | 1.64~1.675 | 3 | 1.5 | 40@0.1GHz | 40@0.6575&2.6575GHz | Pin |
| QBF-1800-2200-45 | 1.8~2.2 | 1.2 | 1.5 | 45@1.55GHz | 45@2.45GHz | SMA |
| QBF-1950-2050-40 | 1.95~2.05 | 2 | 1.5 | 40@1.9GHz | 40@2.1GHz | SMA |
| QBF-1980-2010-80 | 1.98~2.01 | 1.5 | 1.5 | 80@DC~1.82GHz | 80@2.17~2.2GHz | SMA |
| QBF-2000-3000-50 | 2~3 | 1 | 1.5 | 50@DC~1.78GHz | 50@3.22~5GHz | SMA |
| QBF-2000-3800-50 | 2~3.8 | 1.7 | 1.7 | 50@DC~1.7GHz | 50@4.1~5GHz | 2.92mm |
| QBF-2000-4000-60 | 2~4 | 1 | 1.6 | 60@1.5GHz | 60@4.5GHz | SMA |

| Part Number | Passband (GHz) | IL (dB, Max.) | VSWR (Max.) | Stopband Attenuation (dB) | | Connectors |
|----------------------|----------------|---------------|-------------|---------------------------|----------------|------------|
| QBF-2025-2085-40 | 2.025~2.085 | 1 | 1.3 | 40@2.2~2.3GHz | - | SMA |
| QBF-2025-2120-50 | 2.025~2.12 | 2 | 1.3 | 50@1.95GHz | 50@2.2~2.3GHz | SMA |
| QBF-2200-2800-30 | 2.2~2.8 | 1 | 2 | 30@2GHz | 30@3GHz | SMA |
| QBF-2240-2280-30 | 2.24~2.28 | 1.1 | 1.25 | 30@2.22~2.3GHz | - | SMA&N |
| QBF-2300-2500-45 | 2.3~2.5 | 3 | 1.5 | 45@2.05GHz | 45@2.75GHz | SMA |
| QBF-2400-2500-35 | 2.4~2.5 | 1.5 | 1.5 | 35@DC~2.2GHz | 35@2.7~5GHz | SMA |
| QBF-2400-2500-50 | 2.4~2.5 | 1 | 1.3 | 50@DC~2.05GHz | 50@2.85~5GHz | SMA |
| QBF-2400-3600-30 | 2.4~3.6 | 1 | 1.5 | 30@2GHz | 30@4GHz | SMA |
| QBF-2500-2700-30 | 2.5~2.7 | 1.3 | 1.25 | 30@DC~2.45GHz | 40@2.75~6GHz | SMA |
| QBF-2526.5-2579.5-40 | 2.5265~2.5795 | 1 | 1.5 | 40@2.3GHz | 40@2.7GHz | SMA |
| QBF-2573.5-2626.5-40 | 2.5735~2.6265 | 0.8 | 1.3 | 40@2.5435GHz | 40@2.6565GHz | SMA |
| QBF-2613.5-2666.5-40 | 2.6135~2.6665 | 0.8 | 1.3 | 40@2.5835GHz | 40@2.6965GHz | SMA |
| QBF-2700-3500-60 | 2.7~3.5 | 0.9 | 1.7 | 60@2.4GHz | 60@3.8GHz | SMA |
| QBF-3000-4300-50 | 3~4.3 | 1 | 1.5 | 50@DC~2.5GHz | 50@5~7GHz | SMA |
| QBF-3400-3600-30 | 3.4~3.6 | 1.5 | 1.25 | 30@DC~3.35GHz | 30@3.65~8GHz | SMA |
| QBF-3800-6800-60 | 3.8~6.8 | 1 | 1.7 | 60@DC~2.92GHz | 60@8.16~9GHz | SMA |
| QBF-4000-6000-70 | 4~6 | 2 | 2 | 70@DC~3.6GHz | 60@6.38~8GHz | SMA |
| QBF-4000-6000-40 | 4~6 | 1 | 1.5 | 40@3.4GHz | 40@7GHz | SMA |
| QBF-4300-8200-50 | 4.3~8.2 | 1.5 | 1.7 | 50@DC~3.7GHz | 50@8.8~10GHz | 2.92mm |
| QBF-5000-6000-35 | 5~6 | 1.5 | 1.5 | 35@DC~4.6GHz | 35@6.4~10GHz | SMA |
| QBF-5000-6000-35-1 | 5~6 | 1.8 | 1.8 | 35@DC~4.9GHz | 35@6.1~12GHz | SMA |
| QBF-5600-6000-60 | 5.6~6 | 0.9 | 1.5 | 80@5.05GHz | 60@6.15GHz | SMA |
| QBF-5640-5660-50 | 5.64~5.66 | 0.6 | 1.3 | 50@DC~5GHz | 50@6.3~18GHz | SMA |
| QBF-5700-5900-45 | 5.7~5.9 | 1.8 | 1.5 | 45@5.5GHz | 45@6.1GHz | SMA |
| QBF-5841-6249-50 | 5.841~6.249 | 1 | 1.5 | 50@DC~4.85GHz | 50@7.15~15GHz | SMA |
| QBF-6000-8192-20 | 6~8.192 | 3 | 1.8 | 20@5.7GHz | 20@8.5GHz | SMA |
| QBF-6800-7800-40 | 6.8~7.8 | 2 | 1.5 | 40@6.2GHz | 40@8.4GHz | SMA |
| QBF-6800-9800-60 | 6.8~9.8 | 1 | 1.5 | 60@DC~5.23GHz | 60@11.76~15GHz | SMA |
| QBF-6867.2-7500-30 | 6.8672~7.5 | 2 | 1.5 | 10@6.5925GHz | 30@5~6.3288GHz | Pin |
| QBF-7000-7400-40 | 7~7.4 | 1.2 | 1.5 | 40@DC~6.76GHz | 40@7.64~10GHz | SMA |
| QBF-7300-8300-40 | 7.3~8.3 | 2 | 1.5 | 40@6.7GHz | 40@9GHz | SMA |
| QBF-7400-12600-40 | 7.4~12.6 | 1.5 | 1.6 | 40@DC~6GHz | 40@14~18GHz | SMA |
| QBF-7650-8350-50 | 7.65~8.35 | 3 | 1.5 | 50@7.15GHz | 50@8.5GHz | SMA |
| QBF-7715-8695-80 | 7.715~8.695 | 3 | 1.5 | 80@7.5GHz | 80@8.91GHz | SMA |
| QBF-8000-11000-45 | 8~11 | 0.65 | 1.8 | 45@5GHz | 45@16~22GHz | SMA |
| QBF-8000-12000-30 | 8~12 | 1 | 1.8 | 45@7GHz | 30@13~20GHz | SMA |
| QBF-8150-8250-40 | 8.15~8.25 | 3 | 1.5 | 40@8.1GHz | 40@8.3GHz | SMA |
| QBF-8192-16384-20 | 8.192~16.384 | 3 | 1.8 | 20@7.1GHz | 20@17.5GHz | SMA |
| QBF-8400-9600-30 | 8.4~9.6 | 2 | 1.5 | 30@DC~8GHz | 30@10~18GHz | SMA |
| QBF-8500-9500-40 | 8.5~9.5 | 2 | 1.5 | 40@7.6GHz | 40@10.3GHz | SMA |
| QBF-8500-16500-50 | 8.5~16.5 | 1.5 | 1.8 | 50@DC~7.2GHz | 50@17.8~19GHz | 2.92mm |
| QBF-8700-12800-35 | 8.7~12.8 | 0.5 | 1.5 | 25@8GHz | 35@14GHz | SMA |
| QBF-9000-10000-40 | 9~10 | 2 | 1.5 | 40@8.3GHz | 40@10.6GHz | SMA |

| Part Number | Passband (GHz) | IL (dB, Max.) | VSWR (Max.) | Stopband Attenuation (dB) | | Connectors |
|--------------------|----------------|---------------|-------------|---------------------------|-----------------------|------------|
| QBF-9000-11700-30 | 9~11.7 | 1 | 1.25 | 45@DC~8.1&12.3~12.6GHz | 30@8.1~8.4&12.6~25GHz | SMA |
| QBF-9000-14000-40 | 9~14 | 1.5 | 1.8 | 40@DC~8GHz | 40@15~23GHz | SMA |
| QBF-9250-10750-60 | 9.25~10.75 | 1.2 | 1.7 | 60@8.9GHz | 60@11.1GHz | SMA |
| QBF-9400-10600-30 | 9.4~10.6 | 1.5 | 1.5 | 30@9GHz | 30@11GHz | SMA |
| QBF-9800-12800-60 | 9.8~12.8 | 1 | 1.22 | 60@DC~7.54GHz | 60@15.36~22GHz | SMA |
| QBF-10200-10600-30 | 10.2~10.6 | 1.5 | 1.5 | 30@10GHz | 30@10.8GHz | SMA |
| QBF-10200-10800-30 | 10.2~10.8 | 1.5 | 1.5 | 30@10GHz | 30@11GHz | SMA |
| QBF-10200-12300-90 | 10.2~12.3 | 1 | 1.5 | 90@DC~7.5GHz | 90@15.52~20GHz | SMA |
| QBF-10425-10575-30 | 10.425~10.575 | 0.6 | 1.3 | 30@10.2GHz | 30@10.8GHz | SMA |
| QBF-11487-12000-30 | 11.487~12 | 2 | 1.5 | 10@11.0275GHz | 30@9~10.5864GHz | Pin |
| QBF-12000-18000-50 | 12~18 | 1 | 1.2 | 50@8.2GHz | 50@20.8GHz | SMA |
| QBF-12700-13300-40 | 12.7~13.3 | 1.5 | 1.5 | 40@12.3GHz | 40@13.7GHz | SMA |
| QBF-12800-15800-60 | 12.8~15.8 | 1 | 1.22 | 60@DC~9.85GHz | 60@18.96~23GHz | SMA |
| QBF-14000-18000-75 | 14~18 | 0.7 | 1.8 | 75@12GHz | 75@20GHz | SMA |
| QBF-14700-15300-40 | 14.7~15.3 | 1.3 | 1.5 | 40@DC~14.46GHz | 40@15.54~18GHz | SMA |
| QBF-15000-16000-40 | 15~16 | 2 | 1.5 | 40@DC~14.5GHz | 40@16.5~18GHz | SMA |
| QBF-15900-16500-40 | 15.9~16.5 | 1.3 | 1.5 | 40@DC~15.66GHz | 40@16.74~18GHz | SMA |
| QBF-16000-16200-40 | 16~16.2 | 1.5 | 1.5 | 40@DC~15.76GHz | 40@16.44~18GHz | SMA |
| QBF-16384-24576-20 | 16.384~24.576 | 3 | 1.8 | 20@15GHz | 20@26GHz | SMA |
| QBF-18000-20000-30 | 18~20 | 2 | 1.5 | 30@DC~17.2GHz | 30@20.8~30GHz | 2.92mm |
| QBF-18000-23000-50 | 18~23 | 1 | 1.3 | 50@DC~17GHz | 50@24~36GHz | SMA |
| QBF-18000-25000-80 | 18~25 | 1.5 | 1.8 | 80@DC~14GHz | 85@29~35GHz | 2.92mm |
| QBF-18000-26500-60 | 18~26.5 | 2 | 1.8 | 60@DC~15GHz | 60@29.5~37GHz | 2.92mm |
| QBF-20600-25000-60 | 20.6~25 | 2 | 1.8 | 60@18.8GHz | 60@26.8GHz | 2.92mm |
| QBF-21000-28000-50 | 21~28 | 1 | 1.6 | 65@DC~19GHz | 50@30~35GHz | 2.92mm |
| QBF-21500-22500-70 | 21.5~22.5 | 2 | 1.3 | 70@DC~20.9GHz | 70@23.1~40GHz | SMA |
| QBF-23000-26500-60 | 23~26.5 | 1.5 | 1.8 | 60@DC~21.3GHz | 60@28.5~40GHz | 2.92mm |
| QBF-23000-30000-85 | 23~30 | 1.5 | 1.5 | 85@19GHz | 85@34GHz | 2.92mm |
| QBF-24000-26000-35 | 24~26 | 2 | 1.5 | 35@DC~23GHz | 35@27~40GHz | 2.92mm |
| QBF-24000-27800-60 | 24~27.8 | 2 | 1.5 | 60@DC~22.4GHz | 60@30~40GHz | 2.92mm |
| QBF-24000-29500-10 | 24~29.5 | 2 | 1.5 | 10@23GHz | 10@30.5GHz | 2.92mm |
| QBF-24000-33000-60 | 24~33 | 2 | 1.8 | 60@DC~21GHz | 60@37~40GHz | 2.92mm |
| QBF-24000-34000-40 | 24~34 | 1.5 | 1.8 | 40@DC~20GHz | 40@37~55GHz | 2.92mm |
| QBF-24750-27750-66 | 24.75~27.75 | 1 | 1.4 | 70@23.83GHz | 66@28.67GHz | 2.92mm |
| QBF-25500-29500-60 | 25.5~29.5 | 1.5 | 1.8 | 60@DC~23.5GHz | 60@31.5~40GHz | 2.92mm |
| QBF-26000-27000-60 | 26~27 | 1 | 1.6 | 60@25GHz | 60@28GHz | 2.92mm |
| QBF-26000-28000-60 | 26~28 | 2 | 1.5 | 60@DC~23GHz | 60@31~40GHz | 2.92mm |
| QBF-26300-26900-40 | 26.3~26.9 | 0.6 | 1.5 | 60@24GHz | 40@30GHz | 2.92mm |
| QBF-26300-29700-60 | 26.3~29.7 | 2 | 1.5 | 60@DC~24.8GHz | 60@32~40GHz | 2.92mm |
| QBF-26400-33000-60 | 26.4~33 | 2 | 1.8 | 60@DC~24GHz | 60@37~40GHz | 2.92mm |
| QBF-27485-31315-50 | 27.485~31.315 | 2 | 1.5 | 60@26GHz | 50@32.3GHz | 2.92mm |
| QBF-27500-28500-60 | 27.5~28.5 | 1 | 1.6 | 60@26.6GHz | 60@29.5GHz | 2.92mm |
| QBF-27500-31000-40 | 27.5~31 | 3 | 1.5 | 40@27GHz | 40@31.5GHz | 2.92mm |

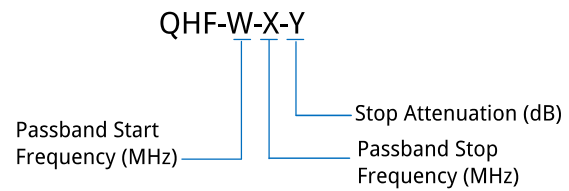
| Part Number | Passband (GHz) | IL (dB, Max.) | VSWR (Max.) | Stopband Attenuation (dB) | | Connectors |
|--------------------|----------------|---------------|-------------|---------------------------|----------------|------------|
| QBF-27700-28300-60 | 27.7~28.3 | 1.2 | 1.6 | 60@DC~25.7GHz | 60@30.3~36GHz | 2.92mm |
| QBF-32500-33500-60 | 32.5~33.5 | 1 | 1.6 | 60@31.5GHz | 60@34.5GHz | 2.92mm |
| QBF-33000-40000-85 | 33-40 | 1 | 1.5 | 85@30GHz | 85@43GHz | 2.92mm |
| QBF-34500-34600-50 | 34.5~34.6 | 3.4 | 1.3 | 50@DC~34.05GHz | 50@35.05~43GHz | 2.92mm |
| QBF-36800-40200-58 | 36.8~40.2 | 2 | 1.5 | 58@DC~35.2GHz | 58@42~67GHz | 2.92mm |
| QBF-38250-38750-30 | 38.25~38.75 | 3.49 | 1.5 | 30@37.95GHz | 30@39.05GHz | 2.92mm |
| QBF-39700-40300-60 | 39.7~40.3 | 1.5 | 1.6 | 60@DC~37.7GHz | 60@42.3~50GHz | 2.92mm |
| QBF-43500-45500-50 | 43.5~45.5 | 3 | 2 | 50@42.8GHz | 50@46.2GHz | 2.4mm |
| QBF-43500-49500-20 | 43.5~49.5 | 1.5 | 1.6 | 20@41.5GHz | 20@51.5GHz | 2.4mm |
| QBF-46000-52000-50 | 46~52 | 2 | 1.5 | 70@30~40GHz | 50@DC~21GHz | 2.4mm |
| QBF-58000-62000-35 | 58~62 | 1 | 1.5 | 35@55GHz | 35@65GHz | 1.85mm |

Description

High pass filter is a kind of filter that attenuates or blocks the lower frequency by high frequency.

Features: Broadband, High Power, Low Insertion Loss

Applications: Amplifiers, Broadcast, Communication, Laboratory Test.



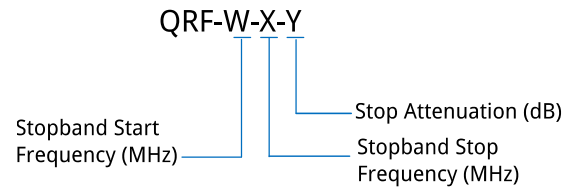
| Part Number | Passband (GHz) | IL (dB, Max.) | VSWR (Max.) | Stopband Attenuation (dB) | Connectors |
|--------------------|----------------|---------------|-------------|---------------------------|------------|
| QHF-380-1000-30 | 0.38~1 | 2.5 | 1.7 | 30@DC~0.35GHz | SMA |
| QHF-1300-7000-40 | 1.3-7 | 2 | 2 | 40@0.915GHz | SMA |
| QHF-1500-9000-60 | 1.5-9 | 3 | 2 | 60@1GHz | SMA |
| QHF-2000-13000-40 | 2-13 | 3 | 2 | 40@1.5GHz | N |
| QHF-2500-18000-60 | 2.5-18 | 3 | 2 | 60@1.76GHz | SMA |
| QHF-2800-15000-40 | 2.8-15 | 2 | 2 | 40@1.99GHz | SMA |
| QHF-3000-13000-65 | 3-13 | 3 | 2 | 65@2.5GHz | N |
| QHF-4000-10000-50 | 4-10 | 1.5 | 2 | 50@1.3GHz | SMA |
| QHF-4000-15000-40 | 4-15 | 2 | 2 | 40@2.7GHz | SMA |
| QHF-4000-18000-15 | 4-18 | 3 | 2 | 15@3GHz | SMA |
| QHF-4000-21000-20 | 4-21 | 2.5 | 2 | 20@3GHz | SMA |
| QHF-5480-18000-50 | 5.48~18 | 0.9 | 2 | 50@DC~3.5GHz | SMA |
| QHF-6000-15000-40 | 6-15 | 2 | 2 | 40@3.9GHz | SMA |
| QHF-7000-24000-60 | 7-24 | 2 | 1.5 | 60@DC~6.3GHz | SMA |
| QHF-7500-24500-60 | 7.5-24.5 | 2 | 1.5 | 60@DC~6.77GHz | SMA |
| QHF-10000-18000-50 | 10-18 | 1.5 | 2 | 50@1.3GHz | SMA |
| QHF-11000-42000-60 | 11~42 | 3.5 | 2.2 | 60@DC~10GHz | 2.92mm |
| QHF-18000-40000-35 | 18-40 | 2 | 2.3 | 35@17.5GHz | 2.92mm |
| QHF-22000-40000-70 | 22-40 | 3 | 2 | 70@18GHz | 2.92mm |
| QHF-26500-40000-60 | 26.5-40 | 3 | 2 | 60@19GHz | 2.92mm |
| QHF-33000-60000-40 | 33-60 | 2 | 2 | 40@30GHz | 1.85mm |

Description

Band reject filter is to block a certain frequency band filter.

Features: Broadband, High Power, Low Insertion Loss

Applications: Amplifiers, Broadcast, Communication, Laboratory Test.



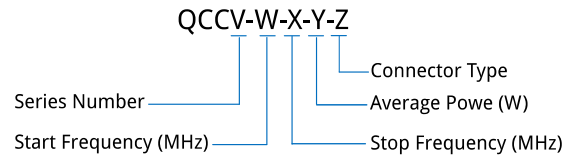
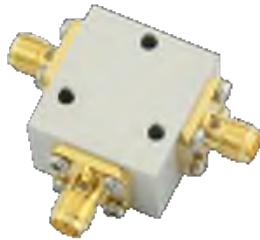
| Part Number | Stopband (MHz) | Stopband Attenuation (dB) | Passband (MHz) | Passband (MHz) | IL (dB, Max.) | VSWR (Max.) | Connectors |
|--------------------|----------------|---------------------------|----------------|----------------|---------------|-------------|------------|
| QRF-600-700-45 | 600-700 | 45 | DC-500 | 800-2500 | 2 | 1.8 | SMA |
| QRF-703-748-50 | 703-748 | 50 | DC-683 | 768-4000 | 2 | 2 | N |
| QRF-758-803-40 | 758-803 | 40 | DC-743 | 818-3000 | 2.5 | 2 | SMA |
| QRF-791-821-60 | 791-821 | 60 | DC-781 | 831-2500 | 3 | - | N |
| QRF-815-880-45 | 815-880 | 45 | DC-780 | 920-1500 | 2.5 | - | SMA |
| QRF-824-849-40 | 824-849 | 40 | DC-814 | 859-3500 | 2 | - | N |
| QRF-880-915-40 | 880-915 | 40 | DC-870 | 925-3500 | 2 | - | N |
| QRF-930-960-55 | 930-960 | 55 | DC-910 | 975-3000 | 3 | 2 | SMA |
| QRF-1240-1260-50 | 1240-1260 | 50 | DC-1230 | 1270-4000 | 2 | 2 | SMA |
| QRF-1350-1450-50 | 1350-1450 | 50 | DC-1300 | 1500-2000 | 1 | 2 | SMA |
| QRF-1447-1467-60 | 1447-1467 | 60 | DC-1422 | 1492-5000 | 3 | 2 | N |
| QRF-1550-1610-60 | 1550-1610 | 60 | 100-400 | 2200-2300 | 1 | 2 | N |
| QRF-1710-1785-40 | 1710-1785 | 40 | DC-1690 | 1800-3500 | 2 | 2 | N |
| QRF-1785-1805-40 | 1785-1805 | 40 | DC-1755 | 1815-5200 | 2 | 2 | N |
| QRF-1805-1880-40 | 1805-1880 | 40 | DC-1755 | 1935-8000 | 2 | 2 | SMA |
| QRF-1805-1880-40-1 | 1805-1880 | 40 | DC-1790 | 1895-5100 | 3 | 1.5 | SMA |
| QRF-1805-1880-60 | 1805-1880 | 60 | DC-1775 | 1910-4500 | 3 | 2 | N |
| QRF-1850-1910-40 | 1850-1910 | 40 | DC-1830 | 1930-3500 | 2 | 2 | N |
| QRF-1805-1925-60 | 1805-1925 | 60 | DC-1755 | 1975-5000 | 2 | 1.5 | SMA |
| QRF-1880-1920-65 | 1880-1920 | 65 | DC-1855 | 1945-2500 | 3 | 2 | SMA |
| QRF-2000-2300-50 | 2000-2300 | 50 | DC-1900 | 2400-5100 | 1.5 | 1.8 | SMA |
| QRF-2110-2170-60 | 2110-2170 | 60 | DC-2070 | 2210-5800 | 3 | 2 | N |
| QRF-2300-2400-60 | 2300-2400 | 60 | DC-2234 | 2480-4000 | 2.5 | 2 | SMA |
| QRF-2300-2675-50 | 2300-2675 | 50 | DC-2200 | 2775-6200 | 1.5 | 1.8 | SMA |
| QRF-2400-2483.5-30 | 2400-2483.5 | 30 | DC-2345 | 2538-15000 | 3 | 2 | SMA |
| QRF-2400-2500-50 | 2400-2500 | 50 | DC-2350 | 2550-5500 | 1.5 | 1.5 | SMA |
| QRF-2496-2590-40 | 2496-2590 | 40 | DC-2300 | 2700-4000 | 1.5 | 2 | SMA |
| QRF-2500-2570-60 | 2500-2570 | 60 | 10-2450 | 2600-6000 | 1 | 2 | SMA |
| QRF-2500-2690-40 | 2500-2690 | 40 | DC-2481 | 2705-3000 | 3.2 | 3 | SMA |
| QRF-2570-2620-55 | 2570-2620 | 55 | DC-2555 | 2635-4000 | 2 | 2 | SMA |
| QRF-2575-2615-50 | 2575-2615 | 50 | DC-2570 | 2620-3000 | 5 | 2 | N |
| QRF-2575-2615-60 | 2575-2615 | 60 | DC-2570 | 2620-6000 | 6 | 2 | SMA |
| QRF-2620-2690-60 | 2620-2690 | 60 | DC-2570 | 2740-10000 | 2 | 2 | SMA |
| QRF-3300-3800-40 | 3300-3800 | 40 | DC-3270 | 3830-6500 | 2 | 2 | SMA |
| QRF-3300-3800-60 | 3300-3800 | 60 | DC-3050 | 4050-15000 | 2.5 | 2 | SMA |
| QRF-3400-3600-50 | 3400-3600 | 50 | DC-3300 | 3700-8000 | 2 | 1.7 | SMA |

| Part Number | Stopband (MHz) | Stopband Attenuation (dB) | Passband (MHz) | Passband (MHz) | IL (dB, Max.) | VSWR (Max.) | Connectors |
|--------------------|----------------|---------------------------|----------------|----------------|---------------|-------------|------------|
| QRF-3420-3700-60 | 3420-3700 | 60 | DC-3270 | 3850-15000 | 2.5 | 2 | SMA |
| QRF-4200-4400-60 | 4200-4400 | 60 | DC-3800 | 4800-18000 | 2 | 2 | SMA |
| QRF-4800-4900-55 | 4800-4900 | 55 | DC-4720 | 4980-11000 | 2 | 1.7 | SMA |
| QRF-5850-5925-50 | 5850-5925 | 50 | DC-5620 | 6170-18000 | 2 | 3 | SMA |
| QRF-5925-6425-50 | 5925-6425 | 50 | DC-5700 | 6650-18000 | 2 | 3 | SMA |
| QRF-5925-7125-50 | 5925-7125 | 50 | DC-5325 | 7725-18000 | 2 | 3 | SMA |
| QRF-6425-6525-50 | 6425-6525 | 50 | DC-6300 | 6650-14000 | 2 | 1.7 | SMA |
| QRF-6525-6875-50 | 6525-6875 | 50 | DC-6350 | 7050-14200 | 2 | 1.7 | SMA |
| QRF-6875-7125-50 | 6875-7125 | 50 | DC-6700 | 7300-15000 | 2 | 1.7 | SMA |
| QRF-14000-14500-50 | 14000-14500 | 50 | 13500-14000 | 14500-15000 | 2 | - | 2.92mm |

Description

Circulator, including coaxial circulator and drop-in circulator, is a multi port device which transmits the forward-travelling wave from one port to the next port in the direction determined by the static bias magnetic field. It is a non-reversible device with several terminals.

Features: Broadband, High Power, Low insertion Loss; **Applications:** Wireless, Radar, Laboratory Test.

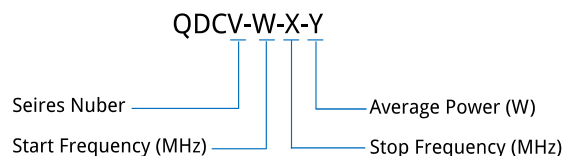
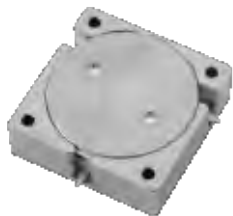


Examples: QCC6060H series Circulator, 55~60MHz, 100W, SMA female, specify QCC6060H-55-60-K1-S.

| Part Number | Freq. (GHz) | Bandwidth (MHz, max.) | Insertion Loss (dB, max.) | Isolation (dB, min.) | VSWR (max.) | Avg. Power (W, max.) | Connector | Temperature (°C) | Size (mm) |
|-------------|-------------|-----------------------|---------------------------|----------------------|-------------|----------------------|-----------|------------------|--------------|
| QCC6060H | 0.02~0.4 | 175 | 2 | 18 | 1.3 | 100 | SMA, N | -20~+60 | 60*60*25.5 |
| QCC6466H | 0.02~0.4 | 175 | 2 | 18 | 1.3 | 100 | SMA, N | -20~+70 | 64*66*22 |
| QCC6466E | 0.13~0.19 | 30 | 0.6 | 10 | 1.3 | 500 | SMA, N | -20~+70 | 64*66*22 |
| QCC8080E | 0.15~0.89 | 80 | 0.6 | 19 | 1.25 | 1000 | 7/16DIN | -30~+75 | 80*80*34 |
| QCC5258E | 0.16~0.33 | 70 | 0.7 | 18 | 1.3 | 400 | SMA, N | -30~+70 | 52*57.5*22 |
| QCC4550X | 0.3~1.1 | 300 | 0.6 | 18 | 1.3 | 400 | SMA, N | -30~+70 | 45*49*18 |
| QCC3538X | 0.3~1.85 | 500 | 0.7 | 18 | 1.35 | 300 | SMA, N | -30~+70 | 35*38*15 |
| QCC3033X | 0.7~3 | 600 | 0.6 | 15 | 1.45 | 200 | SMA | -30~+70 | 30*33*15 |
| QCC3232X | 0.7~3 | 600 | 0.6 | 15 | 1.45 | 200 | SMA, N | -30~+70 | 32*32*15 |
| QCC3434E | 0.7~3 | 600 | 0.6 | 15 | 1.45 | 200 | SMA, N | -30~+70 | 34*34*22 |
| QCC2528B | 0.8~4 | 400 | 0.4 | 20 | 1.25 | 200 | SMA, N | -30~+70 | 25.4*28.5*15 |
| QCC6466K | 0.95~2 | 1050 | 0.65 | 16 | 1.4 | 100 | SMA, N | -10~+60 | 64*66*26 |
| QCC2025B | 1.3~4 | 400 | 0.4 | 20 | 1.25 | 100 | SMA | -30~+70 | 20*25.4*15 |
| QCC5050A | 1.5~3 | 1500 | 0.7 | 17 | 1.4 | 100 | SMA, N | 0~+60 | 50.8*49.5*19 |
| QCC2025X | 2.4~2.483 | 83 | 0.3 | 25 | 1.2 | 100 | SMA | -20~+85 | 20*25.4*14 |
| QCC2528C | 2.7~6.2 | 3500 | 0.8 | 16 | 1.4 | 200 | SMA, N | 0~+60 | 25.4*28*14 |
| QCC3234A | 2~4 | 2000 | 0.6 | 18 | 1.3 | 100 | SMA, N | 0~+60 | 32*34*21 |
| QCC1523C | 3.6~7.2 | 1400 | 0.5 | 18 | 1.35 | 60 | SMA | -10~+60 | 15*22.5*13.8 |
| QCC2123B | 4~8 | 4000 | 0.6 | 18 | 1.35 | 50 | SMA, N | -10~+60 | 21*22.5*15 |
| QCC1623C | 5.725~5.85 | 125 | 0.3 | 23 | 1.2 | 100 | SMA | -20~+80 | 16*23*13 |
| QCC1620B | 6~18 | 12000 | 1.5 | 10 | 1.9 | 30 | SMA | 0~+60 | 16*20.3*14 |
| QCC1319C | 7~12.7 | 4000 | 0.5 | 18 | 1.3 | 30 | SMA | -10~+60 | 13*19*12.7 |
| QCC1622B | 8~18 | 10000 | 1.4 | 12 | 1.6 | 30 | SMA | 0~+60 | 16*21.5*14 |
| QCC1220C | 9~16.5 | 2200 | 0.5 | 19 | 1.3 | 30 | SMA | -10~+60 | 12*20*13 |
| QCC1519A | 18~26.5 | 8500 | 0.8 | 16 | 1.4 | 5 | 2.92mm | -30~+70 | 15*19*13 |
| QCC1215A | 26.5~40 | 13500 | 1.3 | 12 | 1.7 | 5 | 2.92mm | -30~+70 | 12*15*12 |

*Size: Exclude connectors.

*Note: The connector is SMA, and the maximum average power can only reach 100W.



Examples: QDC6060H series Circulator, 70~75MHz, 50W, specify

QDC6060H-70-75-50.

| Part Number | Freq. (GHz) | Bandwidth (MHz, max.) | Insertion Loss (dB, max.) | Isolation (dB, min.) | VSWR (max.) | Avg. Power (W, max.) | Temperature (°C) | Size (mm) |
|-------------|-------------|-----------------------|---------------------------|----------------------|-------------|----------------------|------------------|----------------|
| QDC6060H | 0.02~0.4 | 175 | 2 | 18 | 1.3 | 100 | -10~+60 | 60*60*25.5 |
| QDC6466H | 0.02~0.4 | 175 | 2 | 18 | 1.3 | 100 | -10~+60 | 64*66*22 |
| QDC5050X | 0.15~0.33 | 70 | 0.7 | 18 | 1.3 | 400 | -30~+70 | 50.8*50.8*14.8 |
| QDC4545X | 0.3~1 | 300 | 0.5 | 18 | 1.3 | 400 | -30~+70 | 45*45*13 |
| QDC3538X | 0.3~1.85 | 500 | 0.7 | 18 | 1.35 | 300 | -30~+70 | 35*35*11 |
| QDC3838X | 0.3~1.85 | 106 | 0.4 | 20 | 1.25 | 300 | -30~+70 | 38*38*11 |
| QDC2525X | 0.35~4 | 770 | 0.65 | 15 | 1.45 | 250 | -30~+70 | 25.4*25.4*10 |
| QDC2020X | 0.6~4 | 900 | 0.5 | 18 | 1.35 | 100 | -30~+70 | 20*20*8.6 |
| QDC1919X | 0.8~4.3 | 900 | 0.5 | 18 | 1.35 | 100 | -30~+70 | 19*19*8.6 |
| QDC6466K | 0.95~2 | 1050 | 0.7 | 16 | 1.4 | 100 | -10~+60 | 64*66*26 |
| QDC1313T | 1.71~5.9 | 800 | 0.45 | 18 | 1.3 | 100 | -30~+70 | 12.7*12.7*7.2 |
| QDC5050A | 1.5~3 | 1500 | 0.7 | 17 | 1.4 | 100 | 0~+60 | 50.8*49.5*19 |
| QDC4040A | 1.7~3 | 1200 | 0.7 | 16 | 1.35 | 200 | 0~+60 | 40*40*20 |
| QDC1313M | 1.71~5.9 | 800 | 0.45 | 18 | 1.3 | 100 | -30~+70 | 12.7*12.7*7.2 |
| QDC2528C | 2.7~6 | 3500 | 0.8 | 16 | 1.4 | 200 | -30~+70 | 25.4*28*14 |
| QDC3234A | 2~4 | 2000 | 0.6 | 16 | 1.35 | 100 | 0~+60 | 32*34*21 |
| QDC1822D | 4~5 | 1000 | 0.4 | 18 | 1.35 | 60 | -30~+70 | 18*22*10.4 |
| QDC2123B | 4~8 | 4000 | 0.6 | 18 | 1.35 | 60 | 0~+60 | 21*22.5*15 |
| QDC1220D | 5~6.5 | 800 | 0.5 | 18 | 1.3 | 60 | -30~+70 | 12*20*9.5 |
| QDC1623D | 5~6.5 | 800 | 0.5 | 18 | 1.3 | 50 | -30~+70 | 16*23*9.7 |
| QDC1319C | 6~12 | 4000 | 0.5 | 18 | 1.3 | 50 | 0~+60 | 13*19*12.7 |
| QDC0915D | 7~18 | 6000 | 0.6 | 17 | 1.35 | 30 | -30~+70 | 8.9*15*7.8 |

*Size: Exclude connectors.

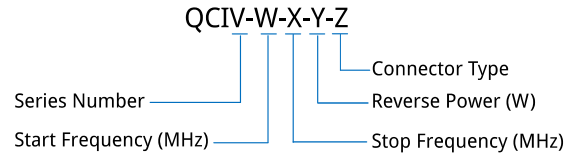
Description

Isolator makes the RF signal transmit in one direction.



Features: Broadband, High Power, Low insertion Loss;

Applications: Power Amplifier, Radar, Laboratory Test.

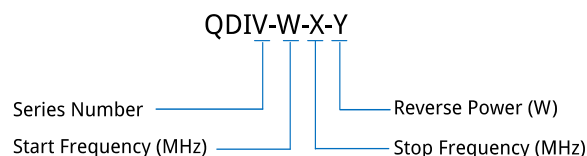


Examples: QCI6466H series Isolator, 30~40MHz, 20W, SMA female, specify QCI6466H-30-40-20-S.

| Part Number | Freq. (GHz) | Bandwidth (MHz, max.) | Insertion (dB, max.) | Isolation (dB, min.) | VSWR (max.) | Fwd. Power (W, max.) | Rev. Power (W) | Connector | Temperature (°C) | Size (mm) |
|-------------|-------------|-----------------------|----------------------|----------------------|-------------|----------------------|----------------|-----------|------------------|----------------|
| QCI6466H | 0.02~0.4 | 175 | 2 | 18 | 1.3 | 100 | 20~100 | SMA, N | 0~+60 | 64*66*22 |
| QCI6060H | 0.02~0.4 | 175 | 2 | 18 | 1.3 | 100 | 10~100 | SMA, N | -20~+70 | 60*60*25.5 |
| QCI12060H | 0.07~0.23 | 56 | 2 | 40 | 1.3 | 150 | 10~100 | SMA, N | -30~+70 | 120*60*25.5 |
| QCI23085H | 0.07~0.23 | 60 | 1.8 | 60 | 1.25 | 150 | 100 | SMA, N | -30~+75 | 230*85*30 |
| QCI5258E | 0.16~0.33 | 70 | 0.7 | 18 | 1.3 | 500 | 10~100 | SMA, N | -30~+70 | 52*57.5*22 |
| QCI10458E | 0.18~0.86 | 60 | 1 | 38 | 1.3 | 300 | 10~100 | SMA, N | -30~+70 | 104*57.5*22 |
| QCI12762H | 0.3~0.5 | 40 | 0.8 | 45 | 1.25 | 300 | 10~100 | SMA, N | -30~+70 | 127*62*22 |
| QCI4550E | 0.3~1.1 | 300 | 0.6 | 18 | 1.3 | 400 | 10~100 | SMA, N | -30~+70 | 45*50*25 |
| QCI4550X | 0.3~1.1 | 300 | 0.6 | 18 | 1.3 | 400 | 10~100 | SMA, N | -30~+70 | 45*49*18 |
| QCI3538X | 0.3~1.85 | 500 | 0.7 | 18 | 1.35 | 300 | 10~100 | SMA, N | -30~+70 | 35*38*15 |
| QCI9648H | 0.35~0.47 | 70 | 0.7 | 40 | 1.25 | 150 | 100 | SMA, N | -30~+70 | 96*48*24 |
| QCI9650H | 0.35~0.47 | 70 | 0.7 | 40 | 1.25 | 150 | 100 | SMA, N | -30~+70 | 96*50*26.5 |
| QCI9662H | 0.35~0.47 | 70 | 0.7 | 40 | 1.25 | 150 | 100 | SMA, N | -30~+70 | 96*62*26 |
| QCI16080H | 0.38~0.47 | 70 | 1.2 | 60 | 1.25 | 300 | 100 | SMA, N | -10~+60 | 160*80*30 |
| QCI7448H | 0.45~2.7 | 400 | 0.8 | 38 | 1.25 | 250 | 10~100 | SMA, N | -30~+70 | 73.8*48.4*22.5 |
| QCI3033X | 0.7~3 | 600 | 0.6 | 15 | 1.45 | 200 | 10~100 | SMA, N | -30~+70 | 30*33*15 |
| QCI3232X | 0.7~3 | 600 | 0.6 | 15 | 1.45 | 200 | 10~100 | SMA, N | -30~+70 | 32*32*15 |
| QCI3434E | 0.7~3 | 600 | 0.6 | 15 | 1.45 | 200 | 10~100 | SMA, N | -30~+70 | 34*34*22 |
| QCI2528B | 0.9~4 | 400 | 0.4 | 20 | 1.25 | 200 | 10~100 | SMA, N | -30~+70 | 25.4*28.5*15 |
| QCI6466K | 0.95~2 | 1050 | 0.65 | 16 | 1.4 | 100 | 10~100 | SMA, N | -30~+70 | 64*66*26 |
| QCI2025X | 1.3~4 | 400 | 0.4 | 20 | 1.25 | 100 | 20 | SMA | -30~+70 | 20*25.4*13 |
| QCI5050A | 1.5~3 | 1500 | 0.7 | 17 | 1.4 | 100 | 10~100 | SMA, N | -10~+60 | 50.8*49.5*19 |
| QCI2528C | 2.7~6.2 | 3500 | 0.8 | 16 | 1.4 | 60 | 20 | SMA, N | -10~+60 | 25.4*28*14 |
| QCI3234A | 2~4 | 2000 | 0.6 | 18 | 1.3 | 100 | 20 | SMA, N | 0~+60 | 32*34*21 |
| QCI6237A | 2~8 | 6000 | 1.5 | 13 | 1.8 | 20 | 5 | SMA | 0~+60 | 62*36.8*19.6 |
| QCI1523C | 3.6~7.2 | 1400 | 0.5 | 18 | 1.3 | 60 | 10 | SMA | -10~+60 | 15*22.5*13.8 |
| QCI1626B | 3.7~5 | 1000 | 0.4 | 20 | 1.25 | 60 | 10 | SMA | -10~+60 | 16*26.5*14.8 |
| QCI2123B | 4~8 | 4000 | 0.6 | 18 | 1.35 | 60 | 20 | SMA | 0~+60 | 21*22.5*15 |
| QCI1622B | 6~18 | 12000 | 1.5 | 11 | 1.9 | 30 | 10 | SMA | 0~+60 | 16*21.5*14 |
| QCI1319C | 7~15 | 4000 | 0.5 | 18 | 1.3 | 20 | 10 | SMA | -10~+60 | 13*19*12.7 |
| QCI2619C | 8~12 | 4000 | 0.8 | 35 | 1.3 | 30 | 10 | SMA | -10~+60 | 26*19*12.7 |
| QCI1220C | 9~16.5 | 2200 | 0.5 | 19 | 1.3 | 30 | 5 | SMA | -30~+70 | 12*20*13 |
| QCI1220A | 18~26.5 | 8500 | 0.7 | 16 | 1.4 | 10 | 5 | 2.92mm | -30~+70 | 12*20*13 |
| QCI1215A | 26.5~40 | 13500 | 1.3 | 12 | 1.7 | 5 | 1 | 2.92mm | -30~+70 | 12*15*12 |

*Size: Exclude connectors.

*Note: The connector is SMA, and the maximum forward power can only reach 100W.



Examples: QDI6060H series Isolator, 60-88MHz, 20W, specify QDI6060H-60-88-20.

| Part Number | Freq. (GHz) | Bandwidth (MHz, max.) | Insertion Loss (dB, max.) | Isolation (dB, min.) | VSWR (max.) | Fwd. Power (W, max.) | Rev. Power (W) | Temperature (°C) | Size (mm) |
|-------------|-------------|-----------------------|---------------------------|----------------------|-------------|----------------------|----------------|------------------|----------------|
| QDI6060H | 0.02-0.4 | 175 | 2 | 18 | 1.3 | 100 | 10-100 | -20-+70 | 60*60*25.5 |
| QDI6466H | 0.02-0.4 | 175 | 2 | 18 | 1.3 | 100 | 10-100 | -10-+60 | 64*66*22 |
| QDI7070X | 0.13-2 | 30 | 0.6 | 10 | 1.3 | 500 | 10-100 | -20-+70 | 70*70*15 |
| QDI5050X | 0.16-0.33 | 70 | 0.7 | 18 | 1.3 | 500 | 10-100 | -30-+70 | 50.8*50.8*14.8 |
| QDI4545X | 0.3-1.1 | 300 | 0.6 | 19 | 1.3 | 500 | 10-100 | -30-+70 | 45*45*13 |
| QDI3538X | 0.3-1.85 | 500 | 0.7 | 18 | 1.35 | 300 | 10-100 | -30-+70 | 35*38*11 |
| QDI3546X | 0.3-1.85 | 500 | 0.7 | 18 | 1.35 | 300 | 100 | -30-+70 | 35*46*11 |
| QDI2525X | 0.35-4 | 770 | 0.65 | 15 | 1.45 | 250 | 10-100 | -30-+70 | 25.4*25.4*10 |
| QDI2532X | 0.35-4 | 770 | 0.65 | 15 | 1.45 | 250 | 100 | -30-+70 | 25.4*31.7*10 |
| QDI5032X | 0.45-2.7 | 400 | 0.8 | 38 | 1.25 | 250 | 10-100 | -30-+70 | 50.8*31.7*10 |
| QDI4020X | 0.6-2.7 | 400 | 0.8 | 40 | 1.2 | 100 | 10-100 | -30-+70 | 40*20*8.6 |
| QDI4027X | 0.6-2.7 | 400 | 0.8 | 40 | 1.2 | 100 | 10-100 | -30-+70 | 40*27.5*8.6 |
| QDI2027X | 0.6-3.6 | 900 | 0.5 | 18 | 1.35 | 150 | 100 | -30-+70 | 20*27.5*8.6 |
| QDI2020X | 0.6-4 | 900 | 0.5 | 18 | 1.35 | 150 | 20 | -30-+70 | 20*20*8.6 |
| QDI1919X | 0.8-4.3 | 900 | 0.5 | 18 | 1.35 | 100 | 20 | -30-+70 | 19*19*8.6 |
| QDI1925X | 0.8-4.3 | 900 | 0.5 | 18 | 1.35 | 100 | 100 | -30-+70 | 19*19*8.6 |
| QDI6466K | 0.95-2 | 1050 | 0.65 | 16 | 1.4 | 100 | 10-100 | 0-+60 | 64*66*26 |
| QDI5050A | 1.5-3 | 1500 | 0.7 | 17 | 1.4 | 100 | 10-100 | -10-+60 | 50.8*49.5*19 |
| QDI1313M | 1.7-6 | 800 | 0.45 | 18 | 1.3 | 60 | 20 | -30-+70 | 12.7*12.7*7.2 |
| QDI1313T | 1.7-6 | 800 | 0.45 | 18 | 1.3 | 60 | 20 | -30-+70 | 12.7*12.7*7.2 |
| QDI3234A | 2-4 | 2000 | 0.6 | 18 | 1.3 | 100 | 10-100 | -10-+60 | 32*34*21 |
| QDI1626D | 3.7-5 | 1000 | 0.5 | 18 | 1.3 | 100 | 10 | -30-+70 | 16*26*10.5 |
| QDI2528C | 3-6 | 3500 | 0.8 | 16 | 1.4 | 60 | 20 | -10-+60 | 25.4*28*14 |
| QDI2123B | 4-8 | 4000 | 0.6 | 18 | 1.35 | 60 | 20 | 0-+60 | 21*22.5*15 |
| QDI1220D | 5-7 | 800 | 0.5 | 18 | 1.3 | 80 | 10 | -30-+70 | 12*20*9.5 |
| QDI1623D | 5-7 | 800 | 0.5 | 18 | 1.3 | 100 | 10 | -30-+70 | 16*23*9.7 |
| QDI0915D | 7-18 | 6000 | 0.6 | 17 | 1.35 | 30 | 10 | -30-+70 | 8.9*15*7.8 |
| QDI1622B | 6-18 | 12000 | 1.5 | 11 | 1.9 | 30 | 10 | 0-+60 | 16*21.5*14 |

*Size: Exclude connectors.

Description

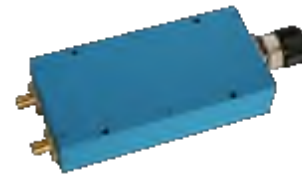
Phase Shifter can continuously change the delay of the signal in the RF transmission system, adjust the phase of measurement system on line. We could provide low IL, high power, manual phase shifter, which phase adjustment could reach to 900°/GHz, and power could reach to 100W.

Features: Broadband, High Sensitivity; **Applications:** Telecom, Radar, Instrument, Laboratory Test.

| Part Number | Phase (°/GHz) | Freq. (GHz) | VSWR (max.) | Insertion Loss (dB, max.) | Avg. Power (W) | Connector | Size (mm) |
|------------------|---------------|-------------|-------------|---------------------------|----------------|-------------------------|--------------|
| QMPS5-40-KKF | 5.4 | DC~40 | 1.5 | 0.8 | - | 2.92mm (m) - 2.92mm (f) | Φ9*41.1~45.6 |
| QMPS5-40-KKFF | 5.4 | DC~40 | 1.5 | 0.8 | - | 2.92mm (f) - 2.92mm (f) | Φ9*40~44.5 |
| QMPS5-40-KK | 5.4 | DC~40 | 1.5 | 0.8 | - | 2.92mm (m) - 2.92mm (m) | Φ9*43.2~47.7 |
| QMPS10-26.5-SSF | 10.2 | DC~26.5 | 1.3 | 0.8 | - | SMA (m) - SMA (f) | Φ9*50.6~59.1 |
| QMPS10-26.5-SFSF | 10.2 | DC~26.5 | 1.3 | 0.8 | - | SMA (f) - SMA (f) | Φ9*49.5~58 |
| QMPS10-26.5-SS | 10.2 | DC~26.5 | 1.3 | 0.8 | - | SMA (m) - SMA (m) | Φ9*51.7~60.2 |
| QMPS20-2-S | 20 | DC~2 | 1.25 | 0.35 | 50 | SMA (m) - SMA (f) | 70*13*15 |
| QMPS20-3-S | 20 | DC~3 | 1.3 | 0.5 | 50 | SMA (m) - SMA (f) | 70*13*15 |
| QMPS20-6-S | 20 | DC~6 | 1.4 | 0.75 | 50 | SMA (m) - SMA (f) | 70*13*15 |
| QMPS20-9-S | 20 | DC~9 | 1.5 | 1 | 50 | SMA (m) - SMA (f) | 70*13*15 |
| QMPS20-12-S | 20 | DC~12 | 1.6 | 1.25 | 50 | SMA (m) - SMA (f) | 70*13*15 |
| QMPS20-18-S | 20 | DC~18 | 1.6 | 1.5 | 50 | SMA (m) - SMA (f) | 70*13*15 |
| QMPS45-1-S | 45 | DC~1 | 1.2 | 0.3 | 50 | SMA (f) - SMA (f) | 131.5*48*21 |
| QMPS45-2-S | 45 | DC~2 | 1.3 | 0.5 | 50 | SMA (f) - SMA (f) | 131.5*48*21 |
| QMPS45-4-S | 45 | DC~4 | 1.4 | 0.75 | 50 | SMA (f) - SMA (f) | 131.5*48*21 |
| QMPS45-6-S | 45 | DC~6 | 1.5 | 1 | 50 | SMA (f) - SMA (f) | 131.5*48*21 |
| QMPS45-8-S | 45 | DC~8 | 1.5 | 1.25 | 50 | SMA (f) - SMA (f) | 131.5*48*21 |

QMPSW-X-Y-Z

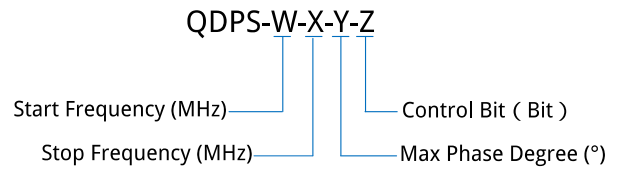
Phase Range (°/GHz) ————
 Stop Frequency (GHz) ————
 Display Type ————
 Connector ————



| Part Number | Phase Adjustment (°/GHz) | Freq. (GHz) | VSWR (max.) | Insertion Loss (dB, max.) | Avg. Power (W) | Connector(Y) | Display (Z) | Size (mm) |
|---------------|--------------------------|-------------|-------------|---------------------------|----------------|--|-------------------------|------------------------------------|
| QMPS60-1-Y-Z | 60 | DC-1 | 1.2 | 0.3 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 200*76*30.5 D: 205*76*50.5 |
| QMPS60-2-Y-Z | 60 | DC-2 | 1.3 | 0.5 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 200*76*30.5 D: 205*76*50.5 |
| QMPS60-3-Y-Z | 60 | DC-3 | 1.4 | 0.8 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 200*76*30.5 D: 205*76*50.5 |
| QMPS60-4-Y-Z | 60 | DC-4 | 1.4 | 1 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 200*76*30.5 D: 205*76*50.5 |
| QMPS60-6-Y-Z | 60 | DC-6 | 1.5 | 1 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 200*76*30.5 D: 205*76*50.5 |
| QMPS60-8-Y-Z | 60 | DC-8 | 1.5 | 1.25 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 200*76*30.5 D: 205*76*50.5 |
| QMPS90-1-Y-Z | 90 | DC-1 | 1.2 | 0.5 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 236*76*30.5 D: 241*76*50.5 |
| QMPS90-2-Y-Z | 90 | DC-2 | 1.3 | 0.8 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 236*76*30.5 D: 241*76*50.5 |
| QMPS90-3-Y-Z | 90 | DC-3 | 1.4 | 1.2 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 236*76*30.5 D: 241*76*50.5 |
| QMPS90-4-Y-Z | 90 | DC-4 | 1.4 | 1.2 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 236*76*30.5 D: 241*76*50.5 |
| QMPS90-6-Y-Z | 90 | DC-6 | 1.5 | 1.4 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 236*76*30.5 D: 241*76*50.5 |
| QMPS90-8-Y-Z | 90 | DC-8 | 1.5 | 1.5 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 236*76*30.5 D: 241*76*50.5 |
| QMPS180-1-Y-Z | 180 | DC-1 | 1.4 | 1 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 372*76*30.5 D: 377*76*50.5 |
| QMPS180-2-Y-Z | 180 | DC-2 | 1.5 | 1.5 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 372*76*30.5 D: 377*76*50.5 |
| QMPS180-3-Y-Z | 180 | DC-3 | 1.5 | 1.75 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 372*76*30.5 D: 377*76*50.5 |
| QMPS180-4-Y-Z | 180 | DC-4 | 1.5 | 2 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 372*76*30.5 D: 377*76*50.5 |
| QMPS360-1-Y-Z | 360 | DC-1 | 1.4 | 1.5 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 390*134*30.5 D: 395*134*50.5 |
| QMPS360-2-Y-Z | 360 | DC-2 | 1.5 | 2 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog D: Digital | A: 390*134*30.5 D: 395*134*50.5 |
| QMPS900-1-Y-A | 900 | DC-1 | 1.5 | 2.5 | 100 | S: SMA (f) - SMA (f) N: N (f) - N (f) | A: Analog | 692*148*67.5 |

Description

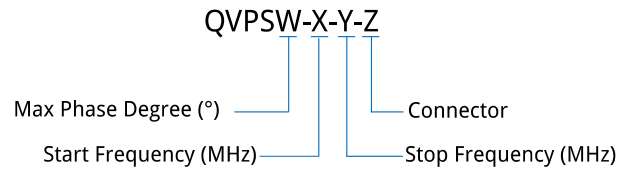
Digital controlled phase shifter has excellent flatness and high phase shifting accuracy, which is widely used in test system and phased array radar.



| Part Number | Freq. (GHz) | Phase Range (°) | Step (dB) | Phase Control (Bit) | Flatness (dB, typ.) | IL (dB, typ.) | VSWR (typ.) | Input Power (dBm, max.) | Connectors |
|-----------------------|-------------|-----------------|-----------|---------------------|---------------------|---------------|-------------|-------------------------|------------|
| QDPS-3000-6000-360-6 | 3~6 | 0~360 | 5.625 | 6 | 4 | 8 | 2 | 32 | SMA |
| QDPS-8000-12000-360-4 | 8~12 | 0~360 | 22.5 | 4 | 4 | 6.5 | 2 | 277 | SMA |

Description

Voltage controlled phase shifter 0 ~ 360 ° It has the characteristics of low insertion loss and high phase accuracy, and is widely used in test equipment and communication system.

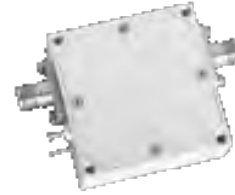


| Part Number | Freq. (GHz) | Phase Range (°) | Flatness (±dB, typ.) | Control Voltage (V) | IL (dB, typ.) | VSWR (typ.) | Input Power (dBm, max.) | Connectors |
|---------------------|-------------|-----------------|----------------------|---------------------|---------------|-------------|-------------------------|------------|
| QVPS360-800-1500-S | 0.8~1.5 | 0~360 | 4 | 0~15 | 4.5 | 2 | 20 | SMA |
| QVPS360-2000-4000-S | 2~4 | 0~360 | 30 | 0~14 | 8 | 2 | 25 | SMA |

Description

Power amplifier, used in the last stage of transmitter, is used to amplify the high-frequency modulated signal to meet the requirements of transmitting power, and then radiates it to space through the antenna to ensure that the receiver in a certain area can receive satisfactory signal level and does not interfere with the communication of adjacent channels.

Features: Broadband, High Power; **Applications:** Wireless, Transmitter, Radar, Laboratory Test.



Power Amplifiers- Module

| Part Number | Freq. (GHz) | Psat (dBm) | P1dB (dBm) | Gain (dB) | Gain Flatness (±dB) | Voltage (V AC) | VSWR | Size (mm) |
|-----------------------|-------------|------------|------------|-----------|---------------------|----------------|------|------------------|
| QPA-0.1-3000-25-26 | 0.0001~3 | - | 26 | 25 | 4 | 28 | 2 | 118*73*35 |
| QPA-0.2-300-34-34 | 0.0002~0.3 | - | 34 | 34 | 2.5 | 24 | 3 | 90*50*23 |
| QPA-1.5-30-15-27 | 0.0015~0.03 | - | 27 | 15 | 1 | 12 | 2 | 50*36.61*10 |
| QPA-5-500-46-37S | 0.005~0.5 | 37 | - | 46 | 2 | 24~28 | 2 | 116*49*25 |
| QPA-20-800-36-20S | 0.02~0.8 | 20 | - | 36 | 1 | 5 | 2 | 58.5*35.88*12.1 |
| QPA-20-6000-40-36 | 0.02~6 | 38 | 36 | 40 | 4 | 15 | 2.5 | 135*100*25 |
| QPA-30-430-40-20S | 0.03~0.43 | 20 | - | 40 | 2 | 5 | 2 | 58.54*35.88*12.1 |
| QPA-30-500-32-37S | 0.03~0.5 | 37 | - | 32 | 1.5 | 12 | 2 | 80*50*20 |
| QPA-30-1000-45-30S | 0.03~1 | 30 | - | 45 | 2.5 | 28 | 2 | 61*45*15 |
| QPA-100-4000-33-33 | 0.1~4 | - | 33 | 33 | 2.5 | 12 | 2 | 80*60*20 |
| QPA-100-4000-60-20 | 0.1~4 | - | 20 | 60 | 3 | 5 | 2 | 80*60*20 |
| QPA-300-600-20-20 | 0.3~0.6 | - | 20 | 20 | 1 | 5 | 1.5 | 31.17*22.6*12 |
| QPA-400-6000-30-25 | 0.4~6 | - | 25 | 30 | 2 | 12 | 2 | 30*25*10 |
| QPA-400-8000-40-22 | 0.4~8 | - | 22 | 40 | 1.5 | 12 | 1.8 | 50*30*15 |
| QPA-410-950-45-47S | 0.41~0.95 | 47 | - | 45 | 2 | 28 | 2 | 200*89*25 |
| QPA-500-2500-46-43 | 0.5~2.5 | - | 43 | 46 | 2.5 | 32 | 2 | 160*100*25 |
| QPA-500-6000-30-37 | 0.5~6 | - | 37 | 30 | 3.5 | 50 | 2 | 80*60*20 |
| QPA-690-6000-35-36 | 0.69~6 | - | 36 | 35 | 2 | 12 | 2 | 120*120*20 |
| QPA-750-6000-35-35 | 0.75~6 | 39 | 35 | 35 | 3.5 | 50 | 2 | 61*45*15 |
| QPA-800-6000-31-30 | 0.8~6 | - | 31 | 31 | 2 | 13 | 2 | 80*90*20 |
| QPA-950-2150-25-25 | 0.95~2.15 | - | 25 | 25 | 1.5 | 5 | 2 | 48.5*29*10 |
| QPA-960-1300-30-40S | 0.96~1.3 | 40 | - | 30 | 1 | 36 | 1.9 | 79.69*73.8*18.11 |
| QPA-1000-2000-20-20S | 1~2 | 20 | - | 20 | 1 | 5 | 1.5 | 50*30*15 |
| QPA-1000-4000-40-40S | 1~4 | 40 | - | 40 | 2 | 50/28 | 2 | 61*45*15 |
| QPA-1000-18000-35-30 | 1~18 | - | 30 | 35 | 2 | 12 | 2 | 61*45*15 |
| QPA-1000-26500-28-24 | 1~26.5 | - | 24 | 28 | 1.5 | 12 | 2 | 50*30*15 |
| QPA-1800-2200-46-45S | 1.8~2.2 | 45 | - | 46 | 1 | 30 | 1.5 | 120*120*20 |
| QPA-2000-3000-33-33 | 2~3 | - | 33 | 33 | 3 | 30~32 | 2 | 120*75*18 |
| QPA-2000-6000-35-33S | 2~6 | 33 | - | 35 | 4 | 28 | 2 | 70*50*20 |
| QPA-2000-6000-40-39 | 2~6 | - | 39 | 40 | 2.5 | 28 | 2 | 80*60*20 |
| QPA-2000-18000-40-40S | 2~18 | 40 | - | 40 | 3 | 32 | 2 | 120*80*15 |
| QPA-2000-18000-50-41S | 2~18 | 41 | - | 50 | 3 | +28/-5 | 2 | 120*60*25 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Psat (dBm) | P1dB (dBm) | Gain (dB) | Gain Flatness (±dB) | Voltage (V AC) | VSWR | Size (mm) |
|------------------------|-------------|------------|------------|-----------|---------------------|----------------|------|------------|
| QPA-2300-4200-53-47.8S | 2.3~4.2 | 47.8 | - | 53 | 2.5 | 50 | 2 | 200*89*25 |
| QPA-2500-2700-50-47.8S | 2.5~2.7 | 47.8 | - | 50 | 1 | 32 | 2 | 200*89*25 |
| QPA-2700-2900-42-50S | 2.7~2.9 | 50 | - | 42 | 1 | 32 | 1.8 | 135*69 |
| QPA-3000-3500-23-46S | 3~3.5 | 46 | - | 23 | 2 | 32 | 2 | 100*60*25 |
| QPA-4000-5000-42-41.7S | 4~5 | 41.7 | - | 42 | 2 | 24 | 2 | 165*50*20 |
| QPA-6000-18000-25-26S | 6~18 | 26 | - | 25 | 1 | 12 | 2 | 61*45*15 |
| QPA-6000-18000-33-26S | 6~18 | 26 | - | 33 | 1 | 12 | 2 | 61*45*15 |
| QPA-6000-18000-35-33S | 6~18 | 33 | - | 35 | 2 | 12 | 2 | 60*60*15 |
| QPA-6000-18000-45-47S | 6~18 | 47 | - | 45 | - | 28 | 2 | 240*200*40 |
| QPA-8000-12000-45-46S | 8~12 | 46 | - | 45 | 2 | 28 | 2 | 100*80*20 |
| QPA-8000-18000-30-30S | 8~18 | 30 | - | 30 | 3 | 8 | 2 | 61*45*15 |
| QPA-8500-10500-25-43S | 8.5~10.5 | 43 | - | 25 | 0.5 | 28 | 2 | 100*80*20 |
| QPA-15000-16500-50-48S | 15~16.5 | 48 | - | 50 | 1 | 28 | 2 | 100*80*18 |
| QPA-15000-18000-30-33 | 15~18 | - | 33 | 30 | 0.5 | 8 | 2 | 61*45*15 |
| QPA-18000-22000-35-13 | 18~22 | - | 13 | 35 | 1 | 5 | 2 | 50*30*15 |
| QPA-18000-22000-40-33 | 18~22 | - | 33 | 40 | 1 | 7.5 | 2 | 61*45*15 |
| QPA-18000-26000-30-30S | 18~26 | 30 | - | 30 | 3.5 | 8 | 2.5 | 61*45*15 |
| QPA-18000-26500-15-23 | 18~26.5 | - | 23 | 15 | 1 | 9 | 1.8 | 50*30*15 |
| QPA-18000-26500-30-30 | 18~26.5 | - | 30 | 30 | - | 8 | 2 | 61*45*15 |
| QPA-18000-26500-40-40 | 18~26.5 | - | 40 | 40 | 2 | 8 | 2 | 150*120*20 |
| QPA-18000-26500-45-40S | 18~26.5 | 40 | - | 45 | 3 | 28/-5 | 2 | 165*140*61 |
| QPA-18000-40000-20-20 | 18~40 | - | 20 | 20 | - | 6 | 2 | 50*30*15 |
| QPA-18000-40000-30-20 | 18~40 | - | 20 | 30 | 2 | 12 | 1.8 | 30*20*12 |
| QPA-18000-40000-30-23S | 18~40 | 23 | - | 30 | 2.5 | 12 | 2.5 | 61*45*15 |
| QPA-18000-40000-30-27 | 18~40 | - | 27 | 30 | 2.5 | 12 | 2 | 150*120*15 |
| QPA-18000-40000-30-30 | 18~40 | - | 30 | 30 | 2.5 | 6 | 2 | 180*150*40 |
| QPA-19000-21000-40-30 | 19~21 | - | 30 | 40 | 1 | 8 | 2 | 61*45*15 |
| QPA-20000-32000-22-21 | 20~32 | - | 21 | 22 | 2.5 | 5 | 2 | 50*30*15 |
| QPA-20000-32000-25-21 | 20~32 | - | 21 | 25 | 1 | 8 | 1.5 | 50*30*15 |
| QPA-20000-40000-33-29S | 20~40 | 29 | - | 33 | 2.5 | 5 | 2 | 61*45*15 |
| QPA-24000-26000-30-30 | 24~26 | - | 30 | 30 | - | 8 | 2 | 50*30*15 |
| QPA-24000-26000-30-32 | 24~26 | - | 32 | 30 | - | 8 | 2 | 80*60*20 |
| QPA-25000-28000-18-25 | 25~28 | - | 25 | 18 | - | 6 | 2 | 50*30*15 |
| QPA-26000-40000-30-30S | 26~40 | 30 | - | 30 | 4 | 8 | 2.5 | 61*45*15 |
| QPA-26500-40000-18-23 | 26.5~40 | - | 23 | 18 | 1.5 | 6 | 1.8 | 60*40*15 |
| QPA-26500-40000-27-27 | 26.5~40 | - | 27 | 27 | 2 | 6.5 | 2 | 61*45*15 |
| QPA-26500-40000-30-26S | 26.5~40 | 26 | - | 30 | 2 | 6 | 2 | 50*30*15 |
| QPA-27000-31000-30-23 | 27~31 | - | 23 | 30 | 1.5 | 12 | 2 | 50*30*15 |
| QPA-27500-31200-25-25 | 27.5~31.2 | - | 25 | 25 | 1 | 12 | 2 | 50*30*15 |
| QPA-29000-31000-35-30 | 29~31 | - | 30 | 35 | 1 | 6 | 2 | 61*45*15 |
| QPA-29500-31500-20-30 | 29.5~31.5 | - | 30 | 20 | 1 | 12 | 2 | 60*60*15 |
| QPA-34000-36000-50-40P | 34~36 | 40 | - | 50 | 1 | 22 | 2 | 61*45*20 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | P _{sat} (dBm) | P _{1dB} (dBm) | Gain (dB) | Gain Flatness (±dB) | Voltage (V AC) | VSWR | Size (mm) |
|------------------------|----------------|---------------------------|---------------------------|--------------|------------------------|-------------------|------|--------------|
| QPA-35000-38000-25-30 | 35~38 | - | 29.5 | 25 | 1.5 | 6 | 2 | 61*45*15 |
| QPA-36000-50000-20-30 | 36~50 | - | 30 | 20 | 1.5 | 5 | 2 | 120*100*28.6 |
| QPA-37000-40000-45-34 | 37~40 | - | 34 | 45 | - | 6 | 2 | 80*60*20 |
| QPA-37000-43000-10-15 | 37~43 | - | 15 | 10 | 1.5 | 6 | 2 | 50*30*15 |
| QPA-37000-43000-30-40S | 37~43 | 40 | - | 30 | 1.5 | 20 | 2 | 80*60*20 |
| QPA-38000-42000-25-30 | 38~42 | - | 30 | 25 | 1.5 | 6 | 2 | 80*60*20 |
| QPA-39000-40000-40-33 | 39~40 | - | 33 | 40 | - | 6 | 2 | 61*45*15 |
| QPA-40000-50000-20-20 | 40~50 | - | 20 | 20 | - | 6 | 2 | 50*30*28.6 |
| QPA-40000-50000-45-29S | 40~50 | 29 | - | 45 | 2 | 5~6 | 2 | 150*120*30 |
| QPA-40000-53000-40-18S | 40~53 | 18 | - | 40 | 2 | 5 | 2 | 50*30*15 |
| QPA-40000-60000-36-20S | 40~60 | 20 | 18 | 36 | - | 5 | 2.6 | 50*30*30 |
| QPA-40000-60000-40-20S | 40~60 | 20 | - | 40 | 2.5 | 15 | 2 | 50*30*15 |
| QPA-47000-52000-20-30S | 47~52 | 30 | - | 20 | 1.5 | 15 | 2 | 61*45*15 |
| QPA-47000-52000-25-30S | 47~52 | 30 | - | 25 | 1.5 | 15 | 2 | 61*45*15 |
| QPA-47000-52000-30-30S | 47~52 | 30 | - | 30 | 2 | 15 | 2 | 61*45*28.6 |
| QPA-50000-75000-35-20S | 50~75 | 20 | 18 | 35 | - | 5 | 2.6 | 50*30*30 |
| QPA-60000-67000-30-27 | 60~67 | 30 | 27 | 30 | 2 | 4.5 | 2 | 80*60*20 |
| QPA-61000-65000-18-26S | 61~65 | 26 | 23 | 18 | 1 | 5 | 2 | 100*80*19 |
| QPA-61000-65000-20-20S | 61~65 | 20 | 17 | 20 | 1.5 | 5 | 2 | 30*19*19 |

Power Amplifiers- System

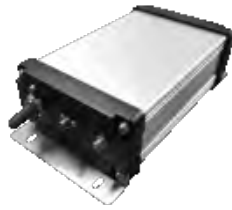
| Part Number | Freq. (GHz) | Psat (dBm) | P1dB (dBm) | Gain (dB) | Gain Flatness (±dB) | Voltage (V AC) | VSWR | Size (mm) |
|----------------------------|-------------|------------|------------|-----------|---------------------|----------------|------|-------------------|
| QPAS-20-2700-50-44S | 0.02~2.7 | 44 | - | 50 | 2.5 | 220 | 2.2 | 460*491*88 |
| QPAS-500-2700-51-50 | 0.5~2.7 | - | 50 | 51 | 2.5 | 220 | 3 | 602.5*482.6*310.3 |
| QPAS-600-6000-43-43S | 0.6~6 | 43 | - | 43 | 4 | 220 | 2 | 526.7*483*147 |
| QPAS-700-2000-40-40 | 0.7~2 | - | 40 | 40 | 1 | 220 | 2 | 308*220*70 |
| QPAS-700-2500-50-52S | 0.7~2.5 | 52 | - | 50 | 2 | 220 | 2 | 481.8*500*88.5 |
| QPAS-700-2700-50-50S | 0.7~2.7 | 50 | - | 50 | 2 | 220 | 2 | 544.5*426*128 |
| QPAS-700-6000-30-30S | 0.7~6 | 30 | - | 30 | 2 | 220 | 2.5 | 44.5*138*250 |
| QPAS-700-6000-40-40S | 0.7~6 | 40 | - | 40 | 2 | 220 | 2.5 | 44.5*483*280 |
| QPAS-1000-26500-20-18 | 1~26.5 | - | 18 | 20 | 2.5 | 220 | 2.6 | 166*106.4*56.4 |
| QPAS-2000-6000-40-46S | 2~6 | 46 | - | 40 | 3 | 220 | 2 | 481.8*500*88.5 |
| QPAS-2000-18000-40-38S | 2~18 | 38 | - | 40 | 2.5 | 220 | 2 | 166*106.4*56.4 |
| QPAS-2000-18000-40-40S | 2~18 | 40 | - | 40 | 3 | 220 | 2 | 430*400*44.3 |
| QPAS-3300-4900-55-55S | 3.3~4.9 | 55 | - | 55 | 1.5 | 220 | 2 | 481.8*500*88.5 |
| QPAS-5000-6000-55-63S | 5~6 | 63 | - | 55 | 1 | 220 | 2 | 482.6*559*132.5 |
| QPAS-6000-12000-30-30S | 6~12 | 30 | - | 30 | 2 | 220 | 2.5 | 44.5*138*250 |
| QPAS-6000-12000-40-40S | 6~12 | 40 | - | 40 | 2 | 220 | 2.5 | 44.5*483*280 |
| QPAS-6000-18000-45-45S | 6~18 | 45 | - | 45 | 2.5 | 220 | 2 | 481.8*338*44.3 |
| QPAS-6000-18000-65.3-50.5S | 6~18 | 50.5 | - | 65.3 | 4 | 220 | 1.9 | 246*246*140 |
| QPAS-6000-18000-68-54S | 6~18 | 54 | - | 68 | 5.3 | 220 | 2 | 701.5*434*265 |
| QPAS-8000-12000-40-47S | 8~12 | 47 | - | 40 | 2 | 220 | 2 | 481.8*500*88.5 |
| QPAS-8000-18000-40-45S | 8~18 | 45 | - | 40 | 2 | 220 | 2 | 538*430*44.3 |
| QPAS-26500-40000-18-23 | 26.5~40 | 23 | - | 18 | 1.5. | 110 | 1.8 | 136*186*52 |
| QPAS-47000-51000-55-43S | 47~51 | 43 | - | 55 | 4 | 220 | 1.6 | 328.5*226*180.5 |

*Size: Exclude connectors

Description

Low noise amplifier has a low noise figure. It is generally used as high or intermediate frequency pre-amplifier of various radio receivers, as well as amplifier circuit of high-sensitivity electronic detection equipment. In the case of amplifying small signal, the noise of amplifier itself may disturb the signal seriously, so we hope to reduce the noise and improve the ratio of signal-to-noise.

Features: Broadband, Low Noise; **Applications:** Wireless, Receiver, Radar, Laboratory Test.



Low Noise Amplifiers- Module

| Part Number | Freq. (GHz) | Noise Figure (dB) | Output Power (P1dB) (dBm) | Gain (dB) | Gain Flatness (±dB) | Voltage (V AC) | VSWR | Size (mm) |
|---------------------|-------------|-------------------|---------------------------|-----------|---------------------|----------------|------|----------------|
| QLA-0.1-500-24-30 | 0.0001~0.5 | 3 | 5 | 24 | 0.5 | 15 | 1.5 | 50*30*15 |
| QLA-0.1-500-30-30 | 0.0001~0.5 | 3 | 5 | 30 | 0.5 | 5 | 1.5 | 50*30*15 |
| QLA-10-60-15-50 | 0.01~0.06 | 5 | 23 | 15 | 1.0 | 12 | 1.5 | 50*30*15 |
| QLA-10-60-16-50 | 0.01~0.06 | 5 | 23 | 16 | 1.5 | 5 | - | 48.5*29 |
| QLA-20-1000-50-20 | 0.02~1 | 2 | 18 | 50 | - | 5 | 2.5 | 100*40*16 |
| QLA-25-1000-50-13 | 0.025~1 | 1.3 | 14 | 50 | - | 5~20 | 2.5 | 60*30*20 |
| QLA-30-1000-50-13 | 0.03~1 | 1.3 | 15 | 50 | 2.5 | 12 | 1.5 | 50*30*15 |
| QLA-30-6000-25-50 | 0.03~6 | 5 | 10 | 25 | 3 | 5 | 2 | 50*30*15 |
| QLA-50-90-15-32 | 0.05~0.09 | 3.2 | 10 | 15 | 0.2 | 15 | 1.5 | 50*30*15 |
| QLA-50-5000-20-20 | 0.05~2 | 2 | 13 | 20 | 1 | 5 | 2 | 36.5*21.5*12.1 |
| QLA-50-6000-25-40 | 0.05~6 | 4 | 22 | 25 | 3 | 12 | 2 | 50*30*15 |
| QLA-100-6000-25-25 | 0.1~6 | 2.5 | 15 | 25 | 2 | 12 | 1.5 | 50*30*15 |
| QLA-100-12000-25-25 | 0.1~12 | 2.5 | 15 | 25 | 2 | 12 | 1.5 | 50*30*15 |
| QLA-100-15000-45-22 | 0.1~15 | 2.2 | 5 | 45 | 2.5 | 12 | 1.5 | 50*30*15 |
| QLA-100-26500-30-30 | 0.1~26.5 | 3 | 20 | 30 | 2.5 | 12 | 2 | 40*35*12 |
| QLA-200-6000-42-13 | 0.2~6 | 1.3 | 15 | 42 | 2 | 12 | 2 | 50*30*15 |
| QLA-400-8000-40-25 | 0.4~8 | 2.5 | 14 | 40 | 1.5 | 12 | 2 | 50*30*15 |
| QLA-500-18000-40-30 | 0.5~18 | 3 | 10 | 40 | 1.5 | 12 | 2.5 | 40*35*12 |
| QLA-500-18000-40-35 | 0.5~18 | 3.5 | 12 | 40 | 2 | 5 | 2 | 50*30*15 |
| QLA-500-40000-45-60 | 0.5~40 | 6 | 16 | 45 | 4.5 | 12 | 2 | 50*30*15 |
| QLA-700-1100-20-25 | 0.7~1.1 | 2.5 | 13 | 20 | 1 | 12 | 1.5 | 50*30*15 |
| QLA-700-1100-25-25 | 0.7~1.1 | 2.5 | 13 | 25 | 1.5 | 5 | - | 48.5*29 |
| QLA-800-18000-25-35 | 0.8~18 | 3.5 | 13 | 25 | 2.5 | 12 | 2 | 50*30*15 |
| QLA-950-2150-20-20 | 0.95~2.15 | 2 | 15 | 20 | 1.5 | 5 | 2 | 48.5*29*10 |
| QLA-1000-2000-30-20 | 1~2 | - | 15 | 30 | 1.5 | 5 | 2 | 60*29*10 |
| QLA-1000-2000-30-30 | 1~2 | 3 | 10 | 30 | 2 | 5 | 2 | 52.73*36*12.11 |
| QLA-1000-2000-35-07 | 1~2 | 0.7 | 20 | 35 | 2 | 5 | 2 | 52.73*36*12.11 |
| QLA-1000-2000-35-10 | 1~2 | 1 | 18 | 35 | 1 | 5 | 1.8 | 52.73*36*12.11 |
| QLA-1000-2500-34-07 | 1~2.5 | 0.7 | 18 | 34 | 1 | 5 | 1.7 | 52.73*36*12.11 |

*Size: Exclude connectors.

| Part Number | Freq. (GHz) | Noise Figure (dB) | Output Power (P1dB) (dBm) | Gain (dB) | Gain Flatness (±dB) | Voltage (V AC) | VSWR | Size (mm) |
|----------------------------|-------------|-------------------|---------------------------|-----------|---------------------|----------------|------|----------------|
| QLA-1000-12000-45-30 | 1~12 | 3 | 10 | 45 | 2 | 5 / 12 | 1.5 | 50*30*15 |
| QLA-1000-18000-30-40 | 1~18 | 4 | 10 | 30 | 1.5 | 12 | 1.5 | 50*30*15 |
| QLA-1000-18000-40-32 | 1~18 | 3.2 | 8 | 40 | 2 | 5 | 1.8 | 50*30*15 |
| QLA-1000-18000-42-25 | 1~18 | 2.5 | 10 | 42 | 1.5 | 9 | 2 | 21.8*17.8*7.4 |
| QLA-1000-18000-45-30 | 1~18 | 3 | 10 | 45 | 2 | 5, 12 | 1.5 | 50*30*15 |
| QLA-1000-18000-47-25 | 1~18 | 2.5 | 10 | 47 | 1.5 | 9 | 2 | 21.8*17.8*7.4 |
| QLA-1000-18000-47-32 | 1~18 | 3.2 | 12 | 47 | - | 12 | 1.8 | 50*30*15 |
| QLA-1000-18000-50-30 | 1~18 | 3 | 20 | 50 | 2.5 | 12 | 2 | 50*30*15 |
| QLA-1000-18000-55-22 | 1~18 | 2.2 | 10 | 55 | 1.5 | 12 | 2.5 | 40*35*12 |
| QLA-1000-20000-40-40 | 1~20 | 4 | 16 | 40 | 2 | 12 | 1.5 | 50*30*15 |
| QLA-1000-40000-40-50 | 1~40 | 5 | 16 (Psat) | 40 | 4.5 | 12 | 3 | 61*45*15 |
| QLA-2000-8000-20-40 | 2~8 | 4 | 8 | 20 | 1.5 | 5 | 1.6 | 50*30*15 |
| QLA-2000-18000-18-30 | 2~18 | 3 | 10 | 18 | 1.5 | 12 | 1.5 | 50*30*15 |
| QLA-2000-18000-28-30 | 2~18 | 3 | 10 | 28 | 1.5 | 12 | 1.5 | 50*30*15 |
| QLA-2000-26500-25-40 | 2~26.5 | 4 | 8 | 25 | 2 | 12 | 1.8 | 50*30*15 |
| QLA-2000-26500-48-50 | 2~26.5 | 5 | 10 | 48 | 5 | 9 | 2.5 | 50*30*15 |
| QLA-2000-50000-36-80 | 2~50 | 8 | 10 | 36 | 2 | 5 | 2 | 45*34*9.5 |
| QLA-2700-3100-40-09 | 2.7~3.1 | 0.9 | 20 | 40 | 1 | 5 | 2 | 68*31.26*12.11 |
| QLA-3000-12000-24-30 | 3~12 | 3 | 21 | 24 | 1.5 | 12 | 1.5 | 50*30*15 |
| QLA-3000-15000-15-30 | 3~15 | 3 | 8 | 15 | 1 | 5 | 1.5 | 50*30*15 |
| QLA-5000-11000-40-30 | 5~11 | 3 | 13 | 40 | 2 | 5 | 2 | 33*28*12.11 |
| QLA-5400-5900-35-08 | 5.4~5.9 | 0.8 | 10 | 35 | 0.3 | 5 | 1.4 | 50*30*15 |
| QLA-6000-18000-20-25 | 6~18 | 2.5 | 10 | 20 | 1.5 | 5 | 2 | 25*20*15 |
| QLA-6000-18000-25-50 | 6~18 | 5 | 10 | 25 | 3 | 5 | 2 | 50*30*15 |
| QLA-6000-18000-50-30 | 6~18 | 3 | 15 | 50 | 1.5 | 12 | 2 | 50*30*15 |
| QLA-8000-12000-15-40 | 8~12 | 4 | 13 | 15 | 0.5 | 5 | 1.5 | 50*30*15 |
| QLA-8000-18000-20-40 | 8~18 | 4 | 8 | 20 | 1.5 | 5 | 1.6 | 50*30*15 |
| QLA-8000-26500-15-35 | 8~26.5 | 3.5 | 8 | 15 | 1.5 | 5 | 1.5 | 50*30*15 |
| QLA-8000-26500-40-65 | 8~26.5 | 6.5 | 18 | 40 | 2 | 12 | 2 | 50*30*15 |
| QLA-12000-18000-20-40 | 12~18 | 4 | 15 | 20 | 1.5 | 12 | 1.5 | 50*30*15 |
| QLA-12000-40000-30-40 | 12~40 | 4 | 5 | 30 | 2.5 | 12 | 2.5 | 50*30*15 |
| QLA-16000-22000-35-25 | 16~22 | 2.5 | 19 | 35 | 1.5 | 12 | 2 | 50*30*15 |
| QLA-16000-40000-20-35 | 16~40 | 3.5 | 16 | 20 | 2 | 5 | 2 | 50*30*15 |
| QLA-17500-20200-20-20 | 17.5~20.2 | 2 | 2 | 20 | 0.5 | 5 | 1.5 | 50*30*15 |
| QLA-17700-21200-30-80 | 17.7~21.2 | 8 | 10 | 30 | 2 | 15~24 | 2 | 50*30*15 |
| QLA-18000-26500-30-40 | 18~26.5 | 4 | 20 | 30 | 2 | 12 | 2 | 50*30*15 |
| QLA-18000-26500-45-32 | 18~26.5 | 3.2 | 10 | 45 | 2 | 5 | 1.8 | 50*30*15 |
| QLA-18000-28000-20-40 | 18~28 | 4 | 8 | 20 | 1.5 | 5 | 1.6 | 50*30*15 |
| QLA-18000-40000-25-50 | 18~40 | 5 | 10 | 25 | 3 | 5 | 2 | 50*30*15 |
| QLA-18000-40000-25-50(P15) | 18~40 | 5 | 15 | 25 | 2.5 | 12 | 2 | 50*30*15 |
| QLA-18000-40000-30-35 | 18~40 | 3.5 | 8 | 30 | 2.5 | 12 | 2.2 | 17.8*16.2*7.4 |
| QLA-18000-40000-30-50(P20) | 18~40 | 5 | 20 | 30 | 2.5 | 12 | 2.5 | 50*30*15 |

*Size: Exclude connectors

| Part Number | Freq. (GHz) | Noise Figure (dB) | Output Power (P1dB) (dBm) | Gain (dB) | Gain Flatness (±dB) | Voltage (V AC) | VSWR | Size (mm) |
|------------------------|----------------|----------------------|------------------------------|--------------|------------------------|-------------------|------|--------------|
| QLA-18000-40000-40-45 | 18~40 | 4.5 | 6 | 40 | 2.5 | 15 | 2 | 50*30*15 |
| QLA-18000-40000-50-45 | 18~40 | 4.5 | 5 | 50 | 3 | 15 | 2 | 50*30*15 |
| QLA-20000-32000-40-25 | 20~32 | 2.5 | 10 | 40 | 2.5 | 5 | 2 | 50*30*15 |
| QLA-23000-25000-35-20 | 23~25 | 2 | -3 | 35 | 1.5 | 5 | 1.8 | 50*30*15 |
| QLA-23000-40000-34-35 | 23~40 | 3.5 | 10 | 34 | 2.5 | 12 | 2 | 50*30*15 |
| QLA-25300-27200-50-18 | 25.3~27.2 | 1.8dB@23°C | 5 | 49~51 | 1 | 12 | 1.7 | 58*40*22.1 |
| QLA-26500-40000-20-30 | 26.5~40 | 3 | 5 | 20 | 1.5 | 5 | 1.5 | 50*30*15 |
| QLA-39000-41000-30-32 | 39~41 | 3.2 | 10 | 30 | 0.5 | 5 | 2 | 50*30*15 |
| QLA-40000-53000-40-50 | 40~53 | 5 | 10 | 40 | 2 | 5 | 2 | 50*30*15 |
| QLA-50000-59000-40-55 | 50~59 | 5.5 | 10 | 40 | 1 | 8 | 2 | 50.2*40*25 |
| QLA-50000-75000-15-40 | 50~75 | 4 | 5 | 15 | - | 5 | 2.4 | 41.52*25*20 |
| QLA-50000-75000-35-60 | 50~75 | 6 | 5 | 35 | - | 5 | 2.4 | 50*25*20 |
| QLA-57000-67000-30-50 | 57~67 | 5 | 10 | 30 | - | 12 | 2 | 50*30*15 |
| QLA-75000-110000-35-40 | 75~110 | 4 | 1 | 35 | - | 5 | 3.5 | 51.52*25*19 |

*Size: Exclude connectors

*Note: LNA system with AC 220V power supply is available

Low Noise Amplifiers - System

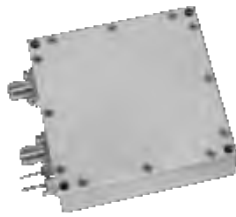
| Part Number | Freq. (GHz) | Noise Figure (dB) | Output Power (dBm) | Gain (dB) | Gain Flatness (±dB) | Voltage (V AC) | VSWR | Size (mm) |
|------------------------|-------------|-------------------|--------------------|-----------|---------------------|----------------|------|----------------|
| QLAS-0.01-15000-12-70 | 0.00001~15 | 7 | 12 | 12 | 3 | 220 | 2 | 136*186*52 |
| QLAS-9K-1000-32-30 | 0.000009~1 | 3 | 10 | 32 | 2.5 | 220 | 2.5 | 200*200*35 |
| QLAS-25-1000-50-13 | 0.025~1 | 1.3 | 14 | 50 | - | 80~270 | 2.5 | 136*186*52 |
| QLAS-100-18000-35-40 | 0.1~18 | 4 | 10 | 35 | 3 | 220 | 2.5 | 166*106.4*56.4 |
| QLAS-100-26500-30-55 | 0.1~26.5 | 5.5 | 20 | 30 | 3 | 220 | 2 | 136*186*52 |
| QLAS-400-8000-40-25 | 0.4~8 | 2.5 | 14 | 40 | 1.5 | 110 | 2 | 166*106.4*56.4 |
| QLAS-500-8000-20-25 | 0.5~8 | 2.5 | 20 | 20 | 2 | 220 | 2 | 166*106.4*56.4 |
| QLAS-500-18000-45-30 | 0.5~18 | 3 | 10 | 45 | 1.5 | 220 | 2.5 | 186*136*52 |
| QLAS-700-8000-30-25 | 0.7~8 | 2.5 | 13 | 30 | 2 | 220 | 2 | 161*135*50 |
| QLAS-1000-5000-25-40 | 1~5 | 4 | 20 (Psat) | 25 | - | 110 | 1.8 | 166*106.4*56.4 |
| QLAS-1000-6000-55-25 | 1~6 | 2.5 | 10 | 55 | 1.5 | 220 | 2 | 166*106.4*56.4 |
| QLAS-1000-18000-40-30 | 1~18 | 3 | 15 | 40 | 2 | 220 | 2 | 166*106.4*56.4 |
| QLAS-1000-18000-45-30 | 1~18 | 3 | 10 | 45 | 2 | 220 | 1.5 | 166*106.4*56.4 |
| QLAS-1000-18000-55-22 | 1~18 | 2.2 | 10 | 55 | 1.5 | 220 | 2.5 | 166*106.4*56.4 |
| QLAS-6000-18000-50-30 | 6~18 | 3 | 15 | 50 | 1.5 | 220 | 2 | 166*106.4*56.4 |
| QLAS-6000-40000-45-35 | 6~40 | 3.5 | 10 | 45 | 2.5 | 220 | 2 | 120*90*46.2 |
| QLAS-6000-40000-55-35 | 6~40 | 3.5 | 10 | 55 | 3.5 | 220 | 2 | 166*106.4*56.4 |
| QLAS-18000-40000-40-35 | 18~40 | 3.5 | 8 | 40 | 2.5 | 220 | 2.5 | 120*90*46.2 |
| QLAS-18000-40000-45-40 | 18~40 | 4.0 | 10 | 45 | 3.5 | 220 | 2 | 166*106.4*56.4 |
| QLAS-18000-40000-50-35 | 18~40 | 3.5 | 10 | 50 | 4 | 220 | 2 | 166*106.4*56.4 |
| QLAS-18000-40000-55-35 | 18~40 | 3.5 | 10 | 55 | 3 | 110~220 | 2 | 166*106.4*56.4 |
| QLAS-26000-30000-25-50 | 26~30 | 5 | 20 (Psat) | 25 | - | 110 | 1.8 | 166*106.4*56.4 |
| QLAS-40000-60000-35-70 | 40~60 | 7.0 | 20 | 35 | 2.5 | 220 | 2 | 196*180*40 |

*Size: Exclude connectors & rack mount brackets & handles.

Description

PLDRO, the abbreviation of Phase Locked Dielectric Resonator Oscillators, is a high stable and reliable frequency source. Qualwave supplies very low phase noise PLDRO at frequencies up to 40GHz.

Features: High Frequency Stability, Ultra Low Phase Noise; **Applications:** Wireless, Transceiver, Radar, Laboratory Test.



Spurious: -70dBc max. Input Power: 3~10dBm
 Harmonic: -20dBc max. Output Power: 13dBm min.
 Voltage: +12V DC
 Lock Indicator: TTL Logic; High (Locked); Low: (Unlocked)

Internal Reference

| Part Number | Output (GHz) | Phase Noise@1KHz Offset (dBc/Hz) | | | | | Reference (MHz) | Reference Phase (dBc/Hz@1kHz) | Current (mA max.) | Size (mm) |
|--------------------|--------------|----------------------------------|-------|--------|---------|-------|-----------------|-------------------------------|-------------------|----------------|
| | | @100Hz | @1KHz | @10KHz | @100KHz | @1MHz | | | | |
| QPDO-I-100-34.941 | 34.941 | -65 | -75 | -80 | -85 | -85 | 100 | - | 800(+12V) | 65*80*28 |
| QPDO-I-100-38 | 38 | - | -100 | - | - | - | 100 | - | 700 | 70*57.2*17.5 |
| QPDO-I-100-24 | 24 | -65 | -75 | -80 | -80 | -115 | 100 | - | 950 | 65*80*18 |
| QPDO-I-100-18.3325 | 18.3325 | - | - | - | -110 | -130 | 100 | -155 | 650 | 57.2*57.2*35.7 |
| QPDO-I-100-18.0925 | 18.0925 | - | - | - | -110 | -130 | 100 | -155 | 650 | 57.2*57.2*35.7 |
| QPDO-I-107-14 | 14 | -85 | -107 | -117 | -117 | -140 | - | - | 500 | 50.8*47.8*35.7 |
| QPDO-I-114-12 | 12 | -86 | -114 | -117 | -117 | -130 | 100 | -160 | 600 | 57.2*57.2*35.3 |
| QPDO-I-105-11 | 11 | -83 | -105 | -113 | -115 | -135 | 100 | - | 600 | 57.2*57.2*35.7 |
| QPDO-I-10-9.6-10M | 9.6 | -81 | -94 | -108 | - | - | 10 | -126 | 560 | 57.2*57.2*33.8 |
| QPDO-I-20-9.6 | 9.6 | - | - | -80 | - | - | 20 | - | 230 | 57.2*57.2*16 |
| QPDO-I-100-7.6275 | 7.6275 | - | - | - | -115 | -133 | 100 | -155 | 650 | 57.2*57.2*35.7 |
| QPDO-I-100-7.5375 | 7.5375 | - | - | - | -115 | -133 | 100 | -155 | 650 | 57.2*57.2*35.7 |
| QPDO-I-100-7.5 | 7.5 | -85 | -115 | -120 | - | - | 100 | - | 560 | 57.2*57.2*33.8 |
| QPDO-I-100-7.4475 | 7.4475 | - | - | - | -115 | -133 | 100 | -155 | 650 | 57.2*57.2*35.7 |
| QPDO-I-100-7.3575 | 7.3575 | -125 | - | - | -115 | -133 | 100 | -155 | 650 | 57.2*57.2*35.7 |
| QPDO-I-100-4.8 | 4.8 | -94 | -116 | -122 | -122 | -140 | 100 | - | 600 | 50.8*47.8*35.7 |
| QPDO-I-100-4.1 | 4.1 | -95 | -118 | -122 | -122 | -140 | 100 | - | 600 | 50.8*47.8*35.7 |
| QPDO-I-80-7.68 | 7.68 | - | - | -120 | -120 | - | 80 | - | 560 | 57.2*57.2*35 |
| QPDO-I-50-1.37 | 1.37 | -100 | -125 | -128 | -129 | -140 | 50 | - | 600 | 57.2*57.2*35.3 |

*Size: Exclude connectors.

External Reference

| Part Number | Output (GHz) | Phase Noise@1KHz Offset (dBc/Hz) | | | | | Reference (MHz) | Reference Phase (dBc/Hz@1kHz) | Current (mA max.) | Size (mm) |
|------------------|-----------------|----------------------------------|-------|--------|---------|-------|--------------------|----------------------------------|----------------------|----------------|
| | | @100Hz | @1KHz | @10KHz | @100KHz | @1MHz | | | | |
| QPDO-E2-100-30 | 30 | -75 | -93 | -96 | -101 | -129 | 100 | -157 | 350 | 57.2*57.2*15.7 |
| QPDO-E-100-20 | 20 | -80 | -103 | -112 | -112 | -133 | 100 | -155 | 350 | 57.2*57.2*15.7 |
| QPDO-E-100-17.65 | 17.65 | -80 | -104 | -110 | -110 | -132 | 100 | -155 | 350 | 57.2*57.2*15.7 |
| QPDO-E-50-17.65 | 17.65 | -80 | -104 | -110 | -110 | -132 | 50 | -155 | 450 | 57.2*57.2*15.7 |
| QPDO-E-100-14 | 14 | -85 | -107 | -117 | -117 | -140 | 100 | -157 | 300 | 50.8*47.8*15.7 |
| QPDO-E-100-11 | 11 | -83 | -105 | -113 | -113 | -135 | 100 | -157 | 350 | 57.2*57.2*15.7 |
| QPDO-E-100-10 | 10 | -88 | -113 | -120 | -120 | -140 | 100 | -157 | 300 | 50.8*47.8*15.7 |
| QPDO-E-100-10.1 | 10.1 | -88 | -113 | -120 | -120 | -140 | 100 | -155 | 300 | 50.8*47.8*15.7 |
| QPDO-E-10-9.99 | 9.99 | -85 | -110 | -115 | -115 | -134 | 10 | - | 600 | 57.2*57.2*33.8 |
| QPDO-E-9953.28 | 9.95328 | - | - | -81 | -87 | -92 | 155.52 | -130@10&100KHz | 160 | 50.8*50.8*14.3 |
| QPDO-E-100-9.9 | 9.9 | -88 | -113 | -120 | -120 | -140 | 100 | -155 | 300 | 50.8*47.8*15.7 |
| QPDO-E-100-9.2 | 9.2 | -88 | -113 | -120 | -120 | -140 | 100 | -155 | 300 | 50.8*47.8*15.7 |
| QPDO-E-100-9.1 | 9.1 | -88 | -113 | -120 | -120 | -140 | 100 | -155 | 300 | 50.8*47.8*15.7 |
| QPDO-E-100-9 | 9 | -88 | -113 | -120 | -120 | -140 | 100 | -155 | 300 | 50.8*47.8*15.7 |
| QPDO-E-100-8.82 | 8.82 | -85 | -108 | -115 | -115 | -135 | 100 | -155 | 350 | 57.2*57.2*15.7 |
| QPDO-E-100-8.3 | 8.3 | -90 | -113 | -118 | -120 | -140 | 100 | -155 | 350 | 57.2*57.2*15.7 |
| QPDO-E-100-8 | 8 | -90 | -113 | -120 | -120 | -140 | 100 | -155 | 300 | 50.8*47.8*15.7 |
| QPDO-E-100-7 | 7 | -92 | -115 | -120 | -120 | -140 | 100 | -155 | 350 | 50.8*47.8*15.7 |
| QPDO-E-100-4.5 | 4.5 | -92 | -116 | -120 | -120 | -140 | 100 | -155 | 300 | 50.8*47.8*15.7 |
| QPDO-E-10-8 | 8 | -90 | -113 | -120 | -120 | -140 | 10 | - | 600 | 50.8*47.8*35.7 |
| QPDO-E-10-6.95 | 6.95 | -90 | -110 | -115 | -115 | -135 | 10 | -170@10KHz | 600 | 60.2*57.2*33.8 |
| QPDO-E-10-6.3 | 6.3 | -90 | -118 | -120 | -120 | -135 | 10 | -170@10KHz | 600 | 60.2*57.2*33.8 |
| QPDO-E-10-4.5 | 4.5 | -92 | -116 | -120 | -120 | -140 | 10 | - | 600 | 50.8*47.8*35.7 |
| QPDO-E-10-1 | 1 | - | - | -90 | - | - | 10 | - | 280 | 40*50*10 |
| QPDO-E-10-0.175 | 0.175 | - | - | -90 | - | - | 10 | - | 280 | 40*50*10 |

Bias Tee

| Part Number | Frequency (GHz) | IL (dB. Max.) | Average Power (W) | Voltage (V) | VSWR (Max.) | Connector |
|------------------|-----------------|---------------|-------------------|-------------|-------------|-----------|
| QBT-5-700-S | 0.005~0.7 | 0.5 | 150 | 0~48 | 1.8 | 40*20*13 |
| QBT-10-2500 | 0.01~2.5 | 0.6 | 150 | 0~60 | 1.8 | SMA |
| QBT-10-4200-S | 0.01~4.2 | 1.25 | 5 | 72 | 1.25 | SMA |
| QBT-10-4200-N | 0.01~4.2 | 1.25 | 5 | 72 | 1.25 | N |
| QBT-200-12000-S | 0.2~12 | 0.6 | 10 | / | 1.8 | SMA |
| QBT-5000-20000 | 5~20 | 0.7 | 2 | 10 | 2 | SMA |
| QBT-9000-11000-S | 9~11 | 0.5 | 50 | 28 | 2 | SMA |
| QBT-18000-40000 | 18~40 | 2 | 3 | 10 | 2 | 2.92mm |
| QBT-24900-25100 | 24.9~25.1 | 0.8 | 3 | 5~48 | 2 | 2.92mm |

Rotary Joints

| Part Number | Channels | Frequency (GHz) | Outside Diameter (mm) | Electrical Channels | Conenector |
|---------------|----------|--------------------------------------|-----------------------|---------------------|------------------------|
| QRJ1-3000-07 | 1 | DC~3 | 7 | 0 | RG405 (SMA, MCX, MMCX) |
| QRJ1-3000-22 | 1 | DC~3 | 22 | 1 ~ 12 | RG405 (SMA, MCX, MMCX) |
| QRJ1-3000-32 | 1 | DC~3 | 32.8 | 13 ~ 24 | RG405 (SMA, MCX, MMCX) |
| QRJ1-18000-12 | 1 | DC~18 | 12.7 | 0 | SMA Female |
| QRJ1-18000-32 | 1 | DC~18 | 32.8 | 1~24 | SMA Female |
| QRJ1-18000-56 | 1 | DC~18 | 56 | 1~48 | SMA Female |
| QRJ1-18000-86 | 1 | DC~18 | 86 | 1~96 | SMA Female |
| QRJ1-50000-12 | 1 | DC~50 | 12.7 | 0 | 2.4mm Female |
| QRJ1-50000-56 | 1 | DC~50 | 56 | 1~48 | 2.4mm Female |
| QRJ2-18000-31 | 2 | 1 Channel:DC~18 2 Channel:DC~5GHz | 31.7 | 0 | SMA Female |

Wrench

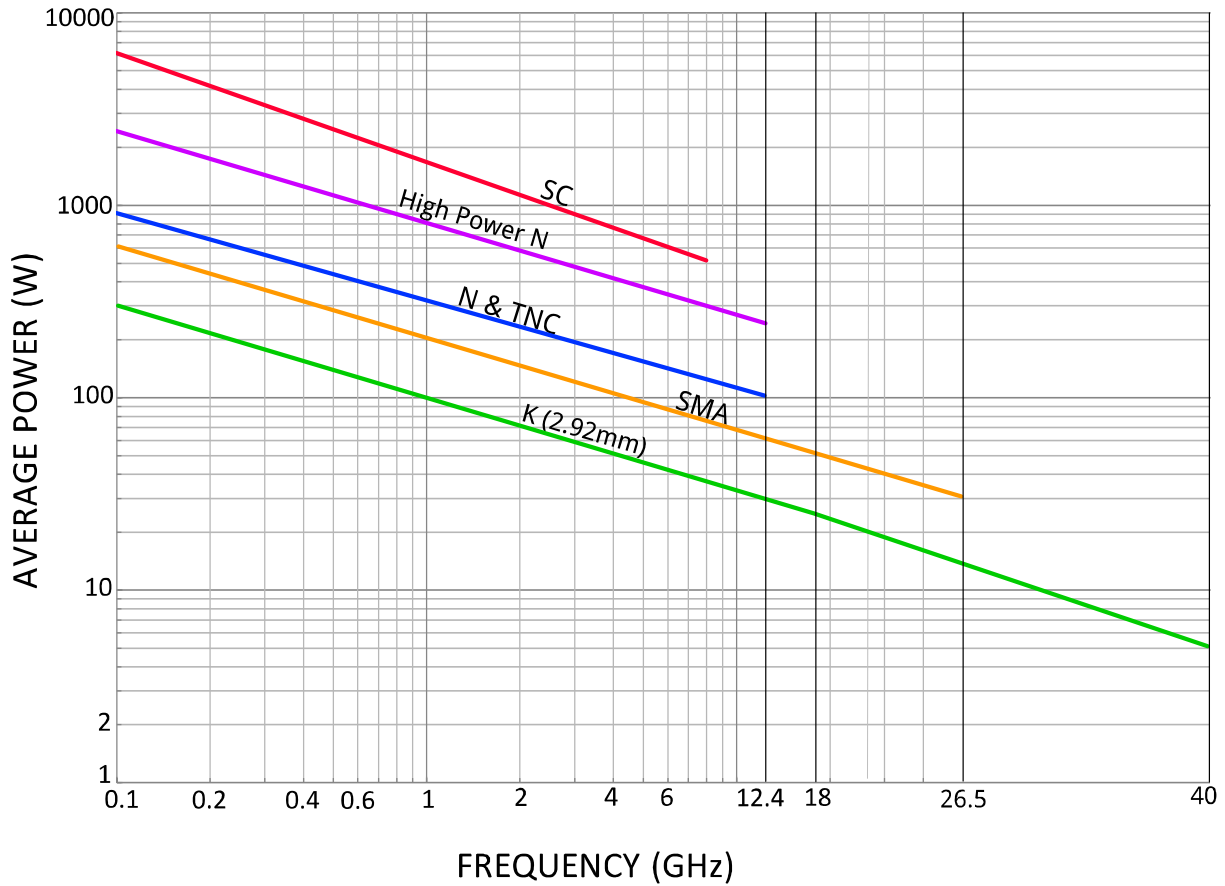
| Part Number | Connector | diameter (mm) |
|-------------|-----------|--------------------------|
| QW-T1 | TNC | 14.2 |
| QW-N | N | 19.2mm (N1), 21.2mm (N2) |
| QW-N3 | N | 20.2mm |
| QW-S1 | SMA | 8mm |
| QW-K1 | 2.92mm | 8.1mm |

Balance Mixer

| Part Number | RF (GHz) | LO (GHz) | IF (GHz) | Conversion Loss (dB) | Isolation (dB) | P1dB (dBm) | VSWR | Connector |
|-------------|----------|----------|----------|----------------------|----------------|------------|------|-----------|
| QBM-10-2000 | 0.01~2 | 0.01~2 | 0.01~1 | 8 | 25 | 1 | 2 | SMA |

Power handling capability of a switch depends on the connector type, materials, and the mechanical design. Temperature and frequency are also important factors which affect the power capacity of a switch in operation.

The power chart below describes the Avg. Power versus frequency for different connector types. (Based on 20 degree C environmental temperature.) The power capability decreases as the frequency increases. Connectors like SC, N can handle more power compared to others while the frequency is limited to a smaller range.



| | | | | | | | | |
|----------|------|------|------|------|-----|------|-----|------|
| VSWR | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 |
| Derating | 0.96 | 0.88 | 0.84 | 0.75 | 0.7 | 0.64 | 0.6 | 0.56 |

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