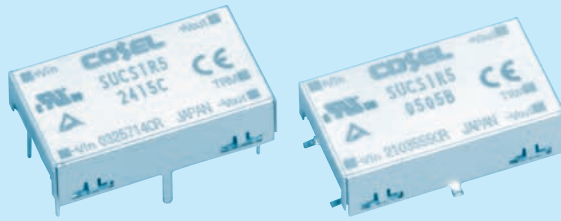
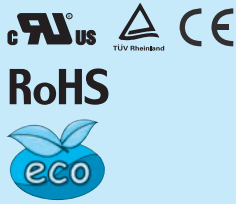


# SUCS1R5

SUC S 1R5 12 05 B P -

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



- ① Series name  
② Single output  
③ Output wattage  
④ Input voltage  
⑤ Output voltage  
⑥ Mounting type  
B :SMD  
C :DIP  
⑦ Packing form  
Blank:Plastic cover  
P :Tray (SMD type)  
⑧ Optional  
C :with coating (only DIP type)\*  
\*Safety standards are pending

| MODEL                 | SUCS1R5053R3  | SUCS1R50505 | SUCS1R50512 | SUCS1R50515 | SUCS1R5123R3 | SUCS1R51205 | SUCS1R51212 | SUCS1R51215 |
|-----------------------|---------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| MAX OUTPUT WATTAGE[W] | 1.32          | 1.5         | 1.56        | 1.5         | 1.32         | 1.5         | 1.56        | 1.5         |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3         | 5           | 12          | 15           | 3.3         | 5           | 12          |
|                       | CURRENT[A]    | 0.4         | 0.3         | 0.13        | 0.1          | 0.4         | 0.3         | 0.1         |

## SPECIFICATIONS

|                               | MODEL                           | SUCS1R5053R3                                         | SUCS1R50505 | SUCS1R50512   | SUCS1R50515   | SUCS1R5123R3 | SUCS1R51205 | SUCS1R51212   | SUCS1R51215   |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|--------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC4.5 - 9                                            |             |               |               | DC9 - 18     |             |               |               |
|                               | CURRENT[A] *2                   | 0.388typ                                             | 0.417typ    | 0.433typ      | 0.417typ      | 0.157typ     | 0.169typ    | 0.176typ      | 0.169typ      |
|                               | EFFICIENCY[%] *2                | 68typ                                                | 72typ       | 72typ         | 72typ         | 70typ        | 74typ       | 74typ         | 74typ         |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5           | 12            | 15            | 3.3          | 5           | 12            | 15            |
|                               | CURRENT[A]                      | 0.4                                                  | 0.3         | 0.13          | 0.1           | 0.4          | 0.3         | 0.13          | 0.1           |
|                               | LINE REGULATION[mV]             | 20max                                                | 20max       | 48max         | 60max         | 20max        | 20max       | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 40max                                                | 40max       | 100max        | 120max        | 40max        | 40max       | 100max        | 120max        |
|                               | RIPPLE[mVp-p]                   | -20 to +55°C *3                                      | 80max       | 80max         | 120max        | 120max       | 80max       | 80max         | 120max        |
|                               |                                 | -40 to -20°C *3                                      | 120max      | 120max        | 150max        | 150max       | 120max      | 150max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55°C *3                                      | 120max      | 120max        | 150max        | 150max       | 120max      | 150max        | 150max        |
|                               |                                 | -40 to -20°C *3                                      | 200max      | 200max        | 200max        | 200max       | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55°C                                         | 50max       | 50max         | 150max        | 180max       | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55°C                                         | 80max       | 80max         | 240max        | 290max       | 80max       | 80max         | 240max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max        | 20max       | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 20max (Minimum input, Io=100%)                       |             |               |               |              |             |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±5% adjustable by external VR   |             |               |               |              |             |               |               |
|                               | OUTPUT VOLTAGE SETTING[V] (±3%) | 3.21 - 3.42                                          | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 | 3.21 - 3.42  | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 |
| OVERCURRENT PROTECTION        |                                 | Works over 105% of rating and recovers automatically |             |               |               |              |             |               |               |

| MODEL                 | SUCS1R5243R3  | SUCS1R52405 | SUCS1R52412 | SUCS1R52415 | SUCS1R5483R3 | SUCS1R54805 | SUCS1R54812 | SUCS1R54815 |
|-----------------------|---------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| MAX OUTPUT WATTAGE[W] | 1.32          | 1.5         | 1.56        | 1.5         | 1.32         | 1.5         | 1.56        | 1.5         |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3         | 5           | 12          | 15           | 3.3         | 5           | 12          |
|                       | CURRENT[A]    | 0.4         | 0.3         | 0.13        | 0.1          | 0.4         | 0.3         | 0.1         |

## SPECIFICATIONS

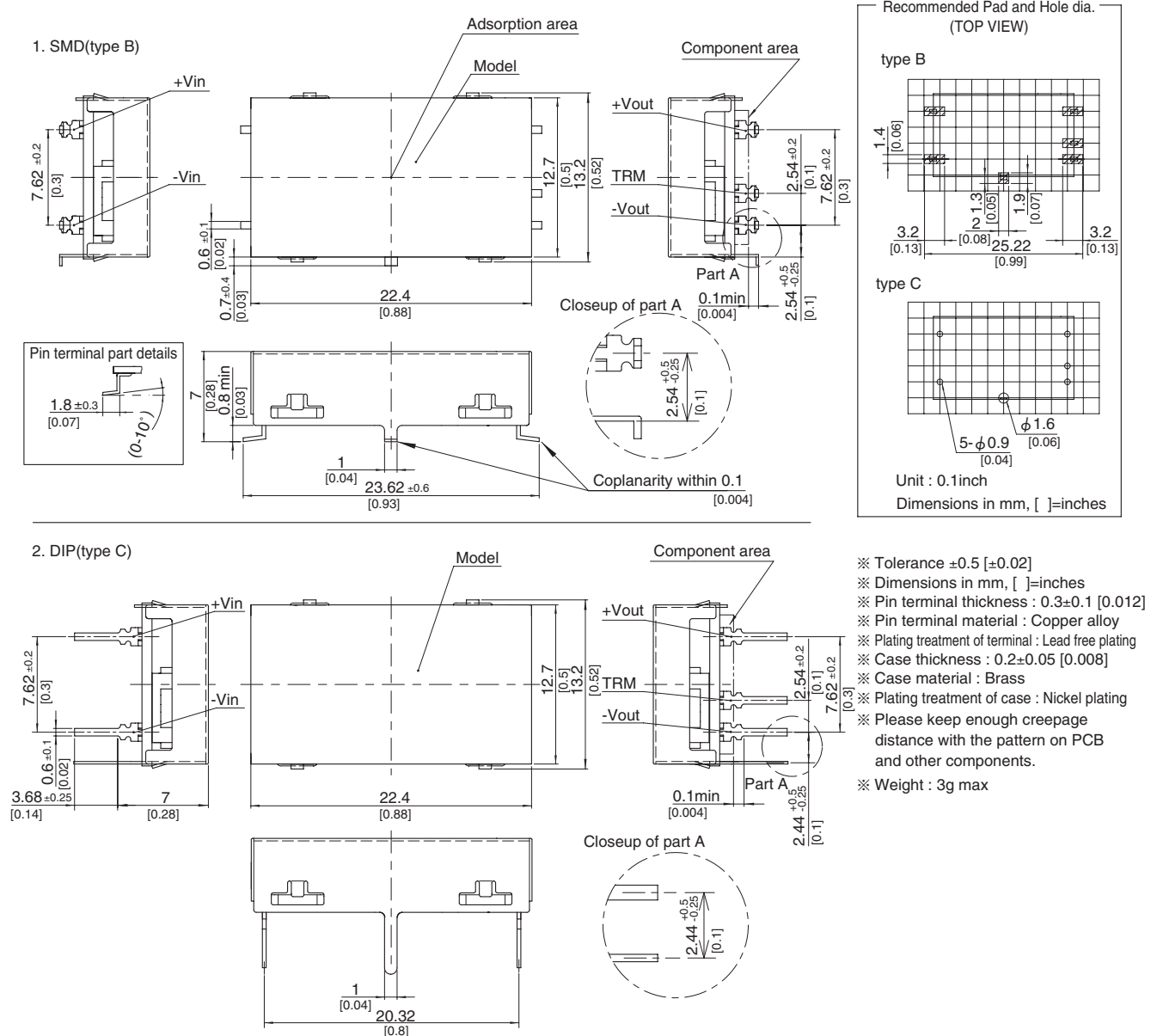
|                               | MODEL                           | SUCS1R5243R3                                         | SUCS1R52405 | SUCS1R52412   | SUCS1R52415   | SUCS1R5483R3 | SUCS1R54805 | SUCS1R54812   | SUCS1R54815   |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|--------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC18 - 36                                            |             |               |               | DC36 - 76    |             |               |               |
|                               | CURRENT[A] *2                   | 0.079typ                                             | 0.084typ    | 0.087typ      | 0.083typ      | 0.039typ     | 0.042typ    | 0.043typ      | 0.042typ      |
|                               | EFFICIENCY[%] *2                | 70typ                                                | 74typ       | 75typ         | 75typ         | 70typ        | 74typ       | 75typ         | 75typ         |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5           | 12            | 15            | 3.3          | 5           | 12            | 15            |
|                               | CURRENT[A]                      | 0.4                                                  | 0.3         | 0.13          | 0.1           | 0.4          | 0.3         | 0.13          | 0.1           |
|                               | LINE REGULATION[mV]             | 20max                                                | 20max       | 48max         | 60max         | 20max        | 20max       | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 40max                                                | 40max       | 100max        | 120max        | 40max        | 40max       | 100max        | 120max        |
|                               | RIPPLE[mVp-p]                   | -20 to +55°C *3                                      | 80max       | 80max         | 120max        | 120max       | 80max       | 80max         | 120max        |
|                               |                                 | -40 to -20°C *3                                      | 120max      | 120max        | 150max        | 150max       | 120max      | 150max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55°C *3                                      | 120max      | 120max        | 150max        | 150max       | 120max      | 150max        | 150max        |
|                               |                                 | -40 to -20°C *3                                      | 200max      | 200max        | 200max        | 200max       | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55°C                                         | 50max       | 50max         | 150max        | 180max       | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55°C                                         | 80max       | 80max         | 240max        | 290max       | 80max       | 80max         | 240max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max        | 20max       | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 20max (Minimum input, Io=100%)                       |             |               |               |              |             |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±5% adjustable by external VR   |             |               |               |              |             |               |               |
|                               | OUTPUT VOLTAGE SETTING[V] (±3%) | 3.21 - 3.42                                          | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 | 3.21 - 3.42  | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 |
| OVERCURRENT PROTECTION        |                                 | Works over 105% of rating and recovers automatically |             |               |               |              |             |               |               |

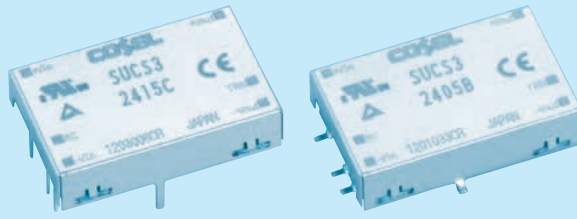
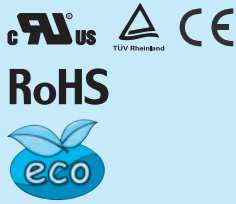
## GENERAL SPECIFICATIONS

|             |                                      |                                                                                                                |
|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------|
| ISOLATION   | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                      |
|             | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                      |
|             | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                      |
| ENVIRONMENT | OPERATING TEMP., HUMID. AND ALTITUDE | -40 to +85 $^{\circ}$ C, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max              |
|             | STORAGE TEMP., HUMID. AND ALTITUDE   | -40 to +100 $^{\circ}$ C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                                 |
|             | VIBRATION                            | 10 - 55Hz, 98.0m/s $^2$ (10G), 3minutes period, 60minutes each along X, Y and Z axis                           |
|             | IMPACT                               | 490.3m/s $^2$ (50G), 11ms, once each along X, Y and Z axis                                                     |
| SAFETY      | AGENCY APPROVALS                     | UL60950-1, C-UL, EN60950-1                                                                                     |
| OTHERS      | CASE SIZE/WEIGHT                     | 22.4 $\times$ 7.0 $\times$ 13.2mm [0.88 $\times$ 0.28 $\times$ 0.52 inches] (W $\times$ H $\times$ D) / 3g max |
|             | COOLING METHOD                       | Convection/Forced air                                                                                          |

- \*1 SUCW1R5xx12/SUCW1R5xx15 is available as single output, +24V/+30V.
- \*2 Rated input 5V, 12V, 24V or 48V DC Io=100%
- \*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.
- \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}$ C.
- \* Parallel operation with other model is not possible.

## External view





- ① Series name  
② Single output  
③ Output wattage  
④ Input voltage  
⑤ Output voltage  
⑥ Mounting type  
B : SMD  
C : DIP  
⑦ Packing form  
Blank: Plastic cover  
P : Tray (SMD type)
- ⑧ Optional  
G : Capacitor between Input and Output is removed.  
C : with coating (only DIP type)\*  
\* Safety standards are pending

| MODEL                 | SUCS3053R3    | SUCS30505 | SUCS30512 | SUCS30515 | SUCS3123R3 | SUCS31205 | SUCS31212 | SUCS31215 |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 1.98          | 3         | 3         | 3         | 1.98       | 3         | 3         | 3         |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3       | 5         | 12        | 15         | 3.3       | 5         | 12        |
|                       | CURRENT[A]    | 0.6       | 0.6       | 0.25      | 0.2        | 0.6       | 0.6       | 0.25      |

## SPECIFICATIONS

|                               | MODEL                           | SUCS3053R3                                           | SUCS30505   | SUCS30512     | SUCS30515     | SUCS3123R3  | SUCS31205   | SUCS31212     | SUCS31215     |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC4.5 - 9                                            |             |               |               | DC9 - 18    |             |               |               |
|                               | CURRENT[A] *2                   | 0.550typ                                             | 0.800typ    | 0.780typ      | 0.780typ      | 0.223typ    | 0.325typ    | 0.317typ      | 0.321typ      |
|                               | EFFICIENCY[%] *2                | 72typ                                                | 75typ       | 77typ         | 77typ         | 74typ       | 77typ       | 79typ         | 78typ         |
|                               |                                 |                                                      |             |               |               |             |             |               |               |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5           | 12            | 15            | 3.3         | 5           | 12            | 15            |
|                               | CURRENT[A]                      | 0.6                                                  | 0.6         | 0.25          | 0.2           | 0.6         | 0.6         | 0.25          | 0.2           |
|                               | LINE REGULATION[mV]             | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 40max                                                | 40max       | 100max        | 120max        | 40max       | 40max       | 100max        | 120max        |
|                               | RIPPLE[mVp-p]                   | -20 to +55°C *3                                      | 80max       | 80max         | 120max        | 120max      | 80max       | 80max         | 120max        |
|                               |                                 | -40 to -20°C *3                                      | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55°C *3                                      | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               |                                 | -40 to -20°C *3                                      | 200max      | 200max        | 200max        | 200max      | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55°C                                         | 50max       | 50max         | 150max        | 180max      | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55°C                                         | 80max       | 80max         | 240max        | 290max      | 80max       | 80max         | 240max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 20max (Minimum input, Io=100%)                       |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±5% adjustable by external VR   |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE SETTING[V] (±3%) | 3.21 - 3.42                                          | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 | 3.21 - 3.42 | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 |
|                               | OVERCURRENT PROTECTION          | Works over 105% of rating and recovers automatically |             |               |               |             |             |               |               |
|                               | REMOTE ON/OFF                   | Provided (Negative logic L : ON, H : OFF)            |             |               |               |             |             |               |               |

| MODEL                 | SUCS3243R3    | SUCS32405 | SUCS32412 | SUCS32415 | SUCS3483R3 | SUCS34805 | SUCS34812 | SUCS34815 |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 1.98          | 3         | 3         | 3         | 1.98       | 3         | 3         | 3         |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3       | 5         | 12        | 15         | 3.3       | 5         | 12        |
|                       | CURRENT[A]    | 0.6       | 0.6       | 0.25      | 0.2        | 0.6       | 0.6       | 0.25      |

## SPECIFICATIONS

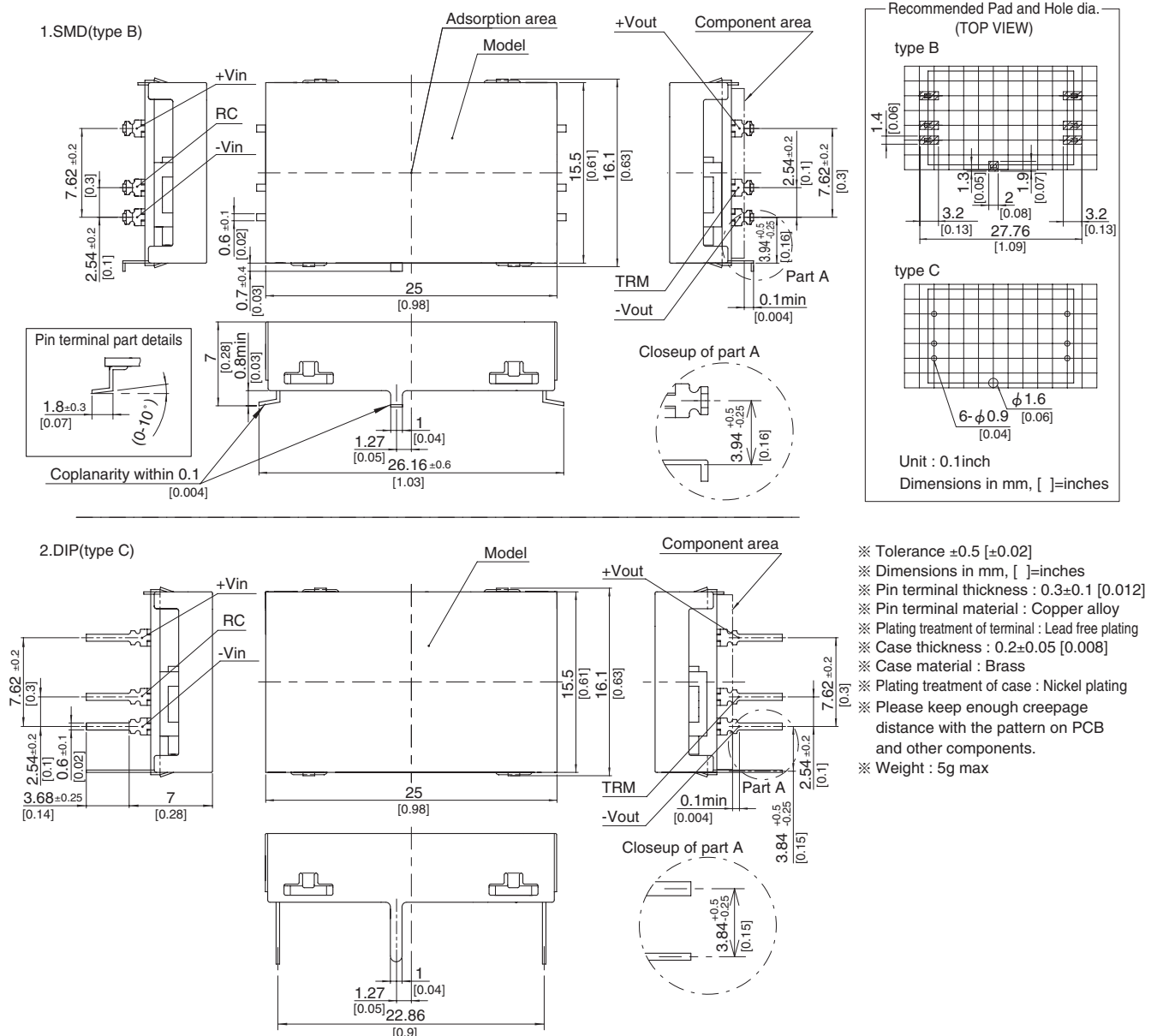
|                               | MODEL                           | SUCS3243R3                                           | SUCS32405   | SUCS32412     | SUCS32415     | SUCS3483R3  | SUCS34805   | SUCS34812     | SUCS34815     |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC18 - 36                                            |             |               |               | DC36 - 76   |             |               |               |
|                               | CURRENT[A] *2                   | 0.114typ                                             | 0.163typ    | 0.159typ      | 0.161typ      | 0.057typ    | 0.082typ    | 0.080typ      | 0.080typ      |
|                               | EFFICIENCY[%] *2                | 73typ                                                | 77typ       | 79typ         | 78typ         | 72typ       | 77typ       | 79typ         | 79typ         |
|                               |                                 |                                                      |             |               |               |             |             |               |               |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5           | 12            | 15            | 3.3         | 5           | 12            | 15            |
|                               | CURRENT[A]                      | 0.6                                                  | 0.6         | 0.25          | 0.2           | 0.6         | 0.6         | 0.25          | 0.2           |
|                               | LINE REGULATION[mV]             | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 40max                                                | 40max       | 100max        | 120max        | 40max       | 40max       | 100max        | 120max        |
|                               | RIPPLE[mVp-p]                   | -20 to +55°C *3                                      | 80max       | 80max         | 120max        | 120max      | 80max       | 80max         | 120max        |
|                               |                                 | -40 to -20°C *3                                      | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55°C *3                                      | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               |                                 | -40 to -20°C *3                                      | 200max      | 200max        | 200max        | 200max      | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55°C                                         | 50max       | 50max         | 150max        | 180max      | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55°C                                         | 80max       | 80max         | 240max        | 290max      | 80max       | 80max         | 240max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 20max (Minimum input, Io=100%)                       |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±5% adjustable by external VR   |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE SETTING[V] (±3%) | 3.21 - 3.42                                          | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 | 3.21 - 3.42 | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 |
|                               | OVERCURRENT PROTECTION          | Works over 105% of rating and recovers automatically |             |               |               |             |             |               |               |
|                               | REMOTE ON/OFF                   | Provided (Negative logic L : ON, H : OFF)            |             |               |               |             |             |               |               |

## GENERAL SPECIFICATIONS

|             |                                    |                                                                                                              |
|-------------|------------------------------------|--------------------------------------------------------------------------------------------------------------|
| ISOLATION   | INPUT-OUTPUT                       | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                    |
|             | INPUT-CASE                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                    |
|             | OUTPUT-CASE                        | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                    |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -40 to +85 $^{\circ}$ C, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max            |
|             | STORAGE TEMP.,HUMID.AND ALTITUDE   | -40 to +100 $^{\circ}$ C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                               |
|             | VIBRATION                          | 10 - 55Hz, 98.0m/s $^2$ (10G), 3minutes period, 60minutes each along X, Y and Z axis                         |
|             | IMPACT                             | 490.3m/s $^2$ (50G), 11ms, once each along X, Y and Z axis                                                   |
| SAFETY      | AGENCY APPROVALS                   | UL60950-1, C-UL, EN60950-1                                                                                   |
| OTHERS      | CASE SIZE/WEIGHT                   | 25 $\times$ 7.0 $\times$ 16.1mm [0.98 $\times$ 0.28 $\times$ 0.63 inches] (W $\times$ H $\times$ D) / 5g max |
|             | COOLING METHOD                     | Convection/Forced air                                                                                        |

- \*1 SUCW3xx12/SUCW3xx15 is available as single output, +24V/+30V.
- \*2 Rated input 5V, 12V, 24V or 48V DC Io=100%
- \*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.
- \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}$ C.
- \* Parallel operation with other model is not possible.

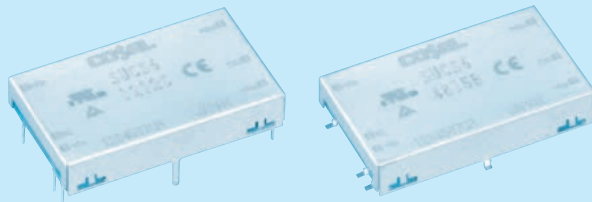
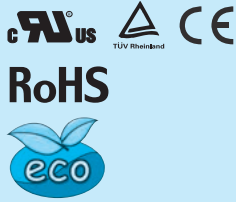
### External view



# SUCS6

SUC S 6 12 05 B P - ☐

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



- ① Series name  
② Single output  
③ Output wattage  
④ Input voltage  
⑤ Output voltage  
⑥ Mounting type  
B : SMD  
C : DIP  
⑦ Packing form  
Blank: Plastic cover  
P : Tray (SMD type)
- ⑧ Optional  
G : Capacitor between Input and Output is removed.  
C : with coating (only DIP type)\*  
\* Safety standards are pending

| MODEL                 | SUCS6053R3    | SUCS60505 | SUCS60512 | SUCS60515 | SUCS6123R3 | SUCS61205 | SUCS61212 | SUCS61215 |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 3.96          | 5         | 6         | 6         | 4.46       | 6         | 6         | 6         |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3       | 5         | 12        | 15         | 3.3       | 5         | 12        |
|                       | CURRENT[A]    | 1.2       | 1         | 0.5       | 0.4        | 1.35      | 1.2       | 0.5       |

## SPECIFICATIONS

|                               | MODEL                           | SUCS6053R3                                           | SUCS60505   | SUCS60512     | SUCS60515     | SUCS6123R3  | SUCS61205   | SUCS61212     | SUCS61215     |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC4.5 - 9                                            |             |               |               | DC9 - 18    |             |               |               |
|                               | CURRENT[A] *2                   | 1.100typ                                             | 1.316typ    | 1.500typ      | 1.500typ      | 0.502typ    | 0.617typ    | 0.588typ      | 0.588typ      |
|                               | EFFICIENCY[%] *2                | 72typ                                                | 76typ       | 80typ         | 80typ         | 74typ       | 81typ       | 85typ         | 85typ         |
|                               |                                 |                                                      |             |               |               |             |             |               |               |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5           | 12            | 15            | 3.3         | 5           | 12            | 15            |
|                               | CURRENT[A]                      | 1.2                                                  | 1           | 0.5           | 0.4           | 1.35        | 1.2         | 0.5           | 0.4           |
|                               | LINE REGULATION[mV]             | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 40max                                                | 40max       | 100max        | 120max        | 40max       | 40max       | 100max        | 120max        |
|                               | RIPPLE[mVp-p]                   | -20 to +55℃ *3                                       | 80max       | 80max         | 120max        | 120max      | 80max       | 80max         | 120max        |
|                               |                                 | -40 to -20℃ *3                                       | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55℃ *3                                       | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               |                                 | -40 to -20℃ *3                                       | 200max      | 200max        | 200max        | 200max      | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55℃                                          | 50max       | 50max         | 150max        | 180max      | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55℃                                          | 80max       | 80max         | 240max        | 290max      | 80max       | 80max         | 240max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 20max (Minimum input, Io=100%)                       |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±5% adjustable by external VR   |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE SETTING[V] (±3%) | 3.21 - 3.42                                          | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 | 3.21 - 3.42 | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 |
|                               | OVERCURRENT PROTECTION          | Works over 105% of rating and recovers automatically |             |               |               |             |             |               |               |
|                               | REMOTE ON/OFF                   | Provided (Negative logic L : ON, H : OFF)            |             |               |               |             |             |               |               |

| MODEL                 | SUCS6243R3    | SUCS62405 | SUCS62412 | SUCS62415 | SUCS6483R3 | SUCS64805 | SUCS64812 | SUCS64815 |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 4.46          | 6         | 6         | 6         | 4.46       | 6         | 6         | 6         |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3       | 5         | 12        | 15         | 3.3       | 5         | 12        |
|                       | CURRENT[A]    | 1.35      | 1.2       | 0.5       | 0.4        | 1.35      | 1.2       | 0.5       |

## SPECIFICATIONS

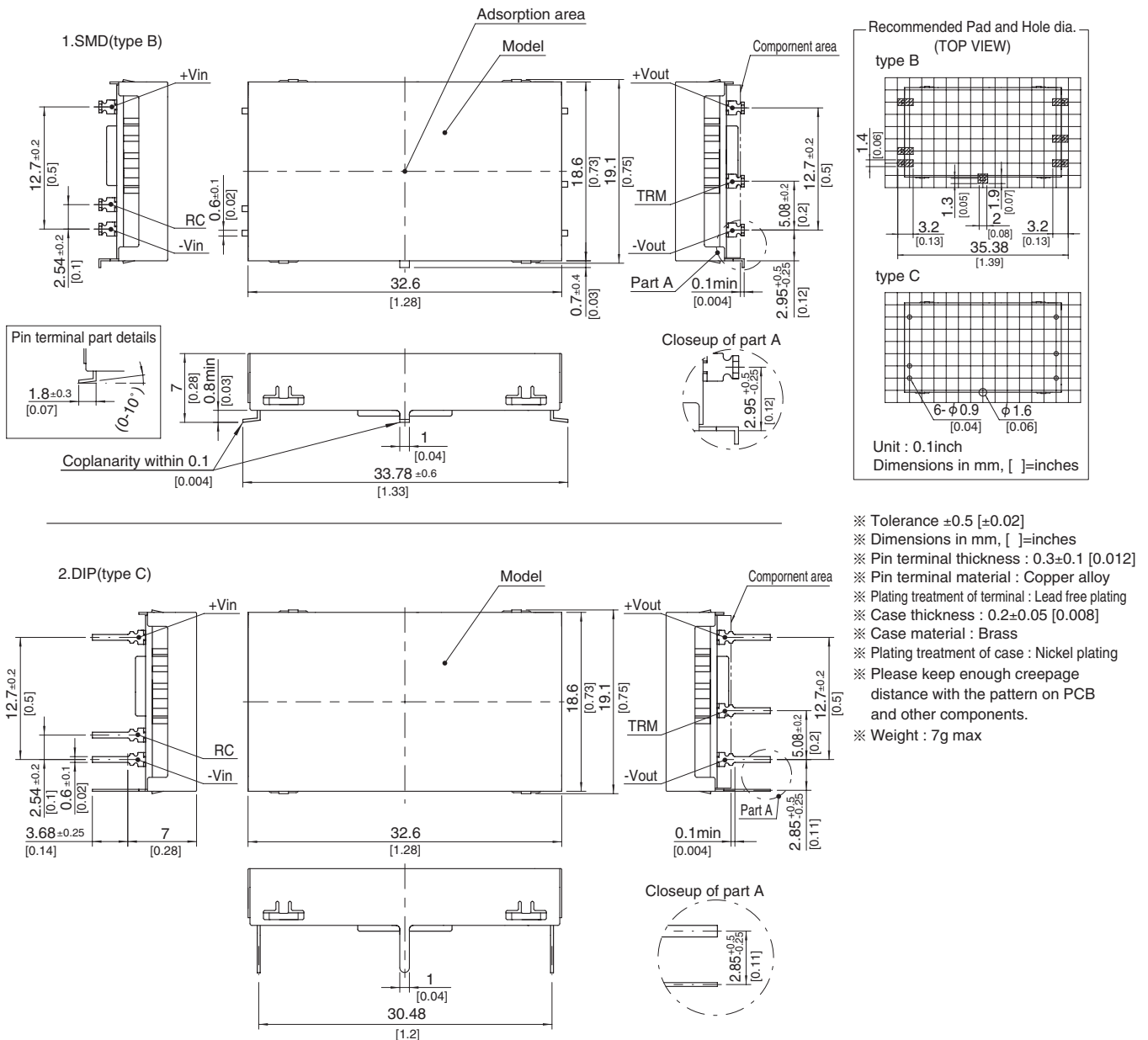
|                               | MODEL                           | SUCS6243R3                                           | SUCS62405   | SUCS62412     | SUCS62415     | SUCS6483R3  | SUCS64805   | SUCS64812     | SUCS64815     |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC18 - 36                                            |             |               |               | DC36 - 76   |             |               |               |
|                               | CURRENT[A] *2                   | 0.248typ                                             | 0.309typ    | 0.291typ      | 0.291typ      | 0.121typ    | 0.154typ    | 0.145typ      | 0.145typ      |
|                               | EFFICIENCY[%] *2                | 75typ                                                | 81typ       | 86typ         | 86typ         | 77typ       | 81typ       | 86typ         | 86typ         |
|                               |                                 |                                                      |             |               |               |             |             |               |               |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5           | 12            | 15            | 3.3         | 5           | 12            | 15            |
|                               | CURRENT[A]                      | 1.35                                                 | 1.2         | 0.5           | 0.4           | 1.35        | 1.2         | 0.5           | 0.4           |
|                               | LINE REGULATION[mV]             | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 40max                                                | 40max       | 100max        | 120max        | 40max       | 40max       | 100max        | 120max        |
|                               | RIPPLE[mVp-p]                   | -20 to +55℃ *3                                       | 80max       | 80max         | 120max        | 120max      | 80max       | 80max         | 120max        |
|                               |                                 | -40 to -20℃ *3                                       | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55℃ *3                                       | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               |                                 | -40 to -20℃ *3                                       | 200max      | 200max        | 200max        | 200max      | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55℃                                          | 50max       | 50max         | 150max        | 180max      | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55℃                                          | 80max       | 80max         | 240max        | 290max      | 80max       | 80max         | 240max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 20max (Minimum input, Io=100%)                       |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±5% adjustable by external VR   |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE SETTING[V] (±3%) | 3.21 - 3.42                                          | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 | 3.21 - 3.42 | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 |
|                               | OVERCURRENT PROTECTION          | Works over 105% of rating and recovers automatically |             |               |               |             |             |               |               |
|                               | REMOTE ON/OFF                   | Provided (Negative logic L : ON, H : OFF)            |             |               |               |             |             |               |               |

## GENERAL SPECIFICATIONS

|             |                                      |                                                                                                                |
|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------|
| ISOLATION   | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                      |
|             | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                      |
|             | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                      |
| ENVIRONMENT | OPERATING TEMP., HUMID. AND ALTITUDE | -40 to +85 $^{\circ}$ C, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max              |
|             | STORAGE TEMP., HUMID. AND ALTITUDE   | -40 to +100 $^{\circ}$ C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                                 |
|             | VIBRATION                            | 10 - 55Hz, 98.0m/s $^2$ (10G), 3minutes period, 60minutes each along X, Y and Z axis                           |
|             | IMPACT                               | 490.3m/s $^2$ (50G), 11ms, once each along X, Y and Z axis                                                     |
| SAFETY      | AGENCY APPROVALS                     | UL60950-1, C-UL, EN60950-1                                                                                     |
| OTHERS      | CASE SIZE/WEIGHT                     | 32.6 $\times$ 7.0 $\times$ 19.1mm [1.28 $\times$ 0.28 $\times$ 0.75 inches] (W $\times$ H $\times$ D) / 7g max |
|             | COOLING METHOD                       | Convection/Forced air                                                                                          |

- \*1 SUCW6xx12/SUCW6xx15 is available as single output, +24V/+30V.
- \*2 Rated input 5V, 12V, 24V or 48V DC Io=100%
- \*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.
- \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}$ C.
- \* Parallel operation with other model is not possible.

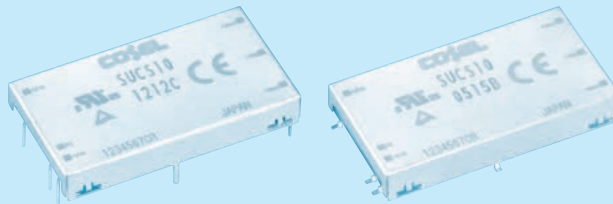
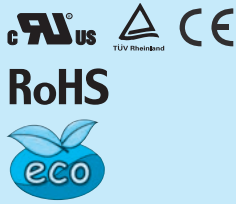
## External view



# SUCS10

SUC S 10 12 05 B P - ☐

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



- ① Series name  
② Single output  
③ Output wattage  
④ Input voltage  
⑤ Output voltage  
⑥ Mounting type  
⑦ Packing form  
Blank: Plastic cover  
P : Tray (SMD type)
- ⑧ Optional  
G : Capacitor between Input and Output is removed.  
C : with coating (only DIP type)\*  
\* Safety standards are pending

| MODEL                 |               | SUCS10053R3 | SUCS100505 | SUCS100512 | SUCS100515 | SUCS10123R3 | SUCS101205 | SUCS101212 | SUCS101215 |
|-----------------------|---------------|-------------|------------|------------|------------|-------------|------------|------------|------------|
| MAX OUTPUT WATTAGE[W] |               | 8.58        | 10         | 10.8       | 10.5       | 8.58        | 10         | 12         | 12         |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3         | 5          | 12         | 15         | 3.3         | 5          | 12         | 15         |
|                       | CURRENT[A]    | 2.6         | 2          | 0.9        | 0.7        | 2.6         | 2          | 1          | 0.8        |

## SPECIFICATIONS

|                               | MODEL                           | SUCS10053R3                                          | SUCS100505  | SUCS100512    | SUCS100515    | SUCS10123R3 | SUCS101205  | SUCS101212    | SUCS101215    |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC4.5 - 9                                            |             |               |               | DC9 - 18    |             |               |               |
|                               | CURRENT[A] *2                   | 2.12typ                                              | 2.41typ     | 2.54typ       | 2.47typ       | 0.872typ    | 0.980typ    | 1.15typ       | 1.15typ       |
|                               | EFFICIENCY[%] *2                | 81typ                                                | 83typ       | 85typ         | 85typ         | 82typ       | 85typ       | 87typ         | 87typ         |
|                               |                                 |                                                      |             |               |               |             |             |               |               |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5           | 12            | 15            | 3.3         | 5           | 12            | 15            |
|                               | CURRENT[A]                      | 2.6                                                  | 2           | 0.9           | 0.7           | 2.6         | 2           | 1             | 0.8           |
|                               | LINE REGULATION[mV]             | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 40max                                                | 40max       | 100max        | 120max        | 40max       | 40max       | 100max        | 120max        |
|                               | RIPPLE[mVp-p]                   | -20 to +55°C *3                                      | 80max       | 80max         | 120max        | 120max      | 80max       | 80max         | 120max        |
|                               |                                 | -40 to -20°C *3                                      | 120max      | 120max        | 150max        | 150max      | 120max      | 150max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55°C *3                                      | 120max      | 120max        | 150max        | 150max      | 120max      | 150max        | 150max        |
|                               |                                 | -40 to -20°C *3                                      | 200max      | 200max        | 200max        | 200max      | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55°C                                         | 50max       | 50max         | 150max        | 180max      | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55°C                                         | 80max       | 80max         | 240max        | 290max      | 80max       | 80max         | 240max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 20max (Minimum input, Io=100%)                       |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±5% adjustable by external VR   |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE SETTING[V] (±3%) | 3.21 - 3.42                                          | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 | 3.21 - 3.42 | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 |
|                               | OVERCURRENT PROTECTION          | Works over 105% of rating and recovers automatically |             |               |               |             |             |               |               |
|                               | REMOTE ON/OFF                   | Provided (Negative logic L : ON, H : OFF)            |             |               |               |             |             |               |               |

| MODEL                 |               | SUCS10243R3 | SUCS102405 | SUCS102412 | SUCS102415 | SUCS10483R3 | SUCS104805 | SUCS104812 | SUCS104815 |
|-----------------------|---------------|-------------|------------|------------|------------|-------------|------------|------------|------------|
| MAX OUTPUT WATTAGE[W] |               | 8.58        | 10         | 12         | 12         | 8.58        | 10         | 12         | 12         |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3         | 5          | 12         | 15         | 3.3         | 5          | 12         | 15         |
|                       | CURRENT[A]    | 2.6         | 2          | 1          | 0.8        | 2.6         | 2          | 1          | 0.8        |

## SPECIFICATIONS

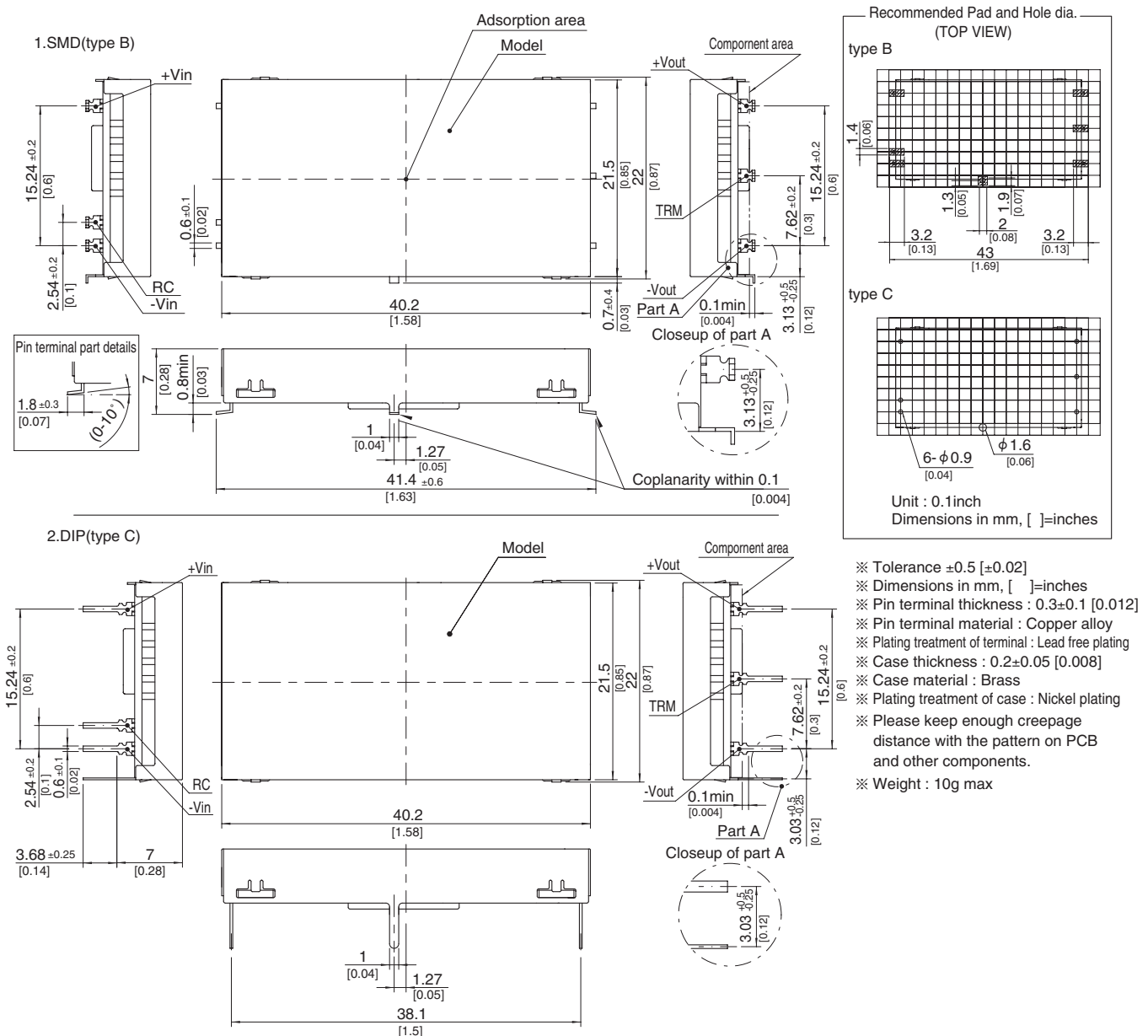
|                               | MODEL                           | SUCS10243R3                                          | SUCS102405  | SUCS102412    | SUCS102415    | SUCS10483R3 | SUCS104805  | SUCS104812    | SUCS104815    |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC18 - 36                                            |             |               |               | DC36 - 76   |             |               |               |
|                               | CURRENT[A] *2                   | 0.436typ                                             | 0.490typ    | 0.575typ      | 0.575typ      | 0.218typ    | 0.245typ    | 0.287typ      | 0.287typ      |
|                               | EFFICIENCY[%] *2                | 82typ                                                | 85typ       | 87typ         | 87typ         | 82typ       | 85typ       | 87typ         | 87typ         |
|                               |                                 |                                                      |             |               |               |             |             |               |               |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5           | 12            | 15            | 3.3         | 5           | 12            | 15            |
|                               | CURRENT[A]                      | 2.6                                                  | 2           | 1             | 0.8           | 2.6         | 2           | 1             | 0.8           |
|                               | LINE REGULATION[mV]             | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 40max                                                | 40max       | 100max        | 120max        | 40max       | 40max       | 100max        | 120max        |
|                               | RIPPLE[mVp-p]                   | -20 to +55°C *3                                      | 80max       | 80max         | 120max        | 120max      | 80max       | 80max         | 120max        |
|                               |                                 | -40 to -20°C *3                                      | 120max      | 120max        | 150max        | 150max      | 120max      | 150max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55°C *3                                      | 120max      | 120max        | 150max        | 150max      | 120max      | 150max        | 150max        |
|                               |                                 | -40 to -20°C *3                                      | 200max      | 200max        | 200max        | 200max      | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55°C                                         | 50max       | 50max         | 150max        | 180max      | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55°C                                         | 80max       | 80max         | 240max        | 290max      | 80max       | 80max         | 240max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 20max (Minimum input, Io=100%)                       |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±5% adjustable by external VR   |             |               |               |             |             |               |               |
|                               | OUTPUT VOLTAGE SETTING[V] (±3%) | 3.21 - 3.42                                          | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 | 3.21 - 3.42 | 4.90 - 5.21 | 11.64 - 12.36 | 14.55 - 15.45 |
|                               | OVERCURRENT PROTECTION          | Works over 105% of rating and recovers automatically |             |               |               |             |             |               |               |
|                               | REMOTE ON/OFF                   | Provided (Negative logic L : ON, H : OFF)            |             |               |               |             |             |               |               |

## GENERAL SPECIFICATIONS

|             |                                    |                                                                                                                 |
|-------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| ISOLATION   | INPUT-OUTPUT                       | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                       |
|             | INPUT-CASE                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                       |
|             | OUTPUT-CASE                        | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                       |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -40 to +85 $^{\circ}$ C, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max               |
|             | STORAGE TEMP.,HUMID.AND ALTITUDE   | -40 to +100 $^{\circ}$ C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                                  |
|             | VIBRATION                          | 10 - 55Hz, 98.0m/s $^2$ (10G), 3minutes period, 60minutes each along X, Y and Z axis                            |
|             | IMPACT                             | 490.3m/s $^2$ (50G), 11ms, once each along X, Y and Z axis                                                      |
| SAFETY      | AGENCY APPROVALS                   | UL60950-1, C-UL, EN60950-1                                                                                      |
| OTHERS      | CASE SIZE/WEIGHT                   | 40.2 $\times$ 7.0 $\times$ 22.0mm [1.58 $\times$ 0.28 $\times$ 0.87 inches] (W $\times$ H $\times$ D) / 10g max |
|             | COOLING METHOD                     | Convection/Forced air                                                                                           |

- \*1 SUCW10xx12/SUCW10xx15 is available as single output, +24V/+30V.
- \*2 Rated input 5V, 12V, 24V or 48V DC  $I_o=100\%$
- \*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.
- \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- \* Parallel operation with other model is not possible.

## External view





## Макро Групп – это:

- дистрибьютор электронных компонентов с 1994 года
- контрактный производитель электроники с 2007 года с собственным производством в Санкт-Петербурге (компания Макро ЕМС, входит в ГК Макро Групп)
- поставщик полупроводниковых материалов
- комплексный поставщик электронных компонентов
- моделирование и производство полупроводниковых эпитаксиальных гетероструктур для задач оптоэлектроники

Головной офис расположен в Санкт-Петербурге. Собственные представительства в крупных промышленных городах России и стран СНГ.

## Преимущества для наших заказчиков:

- работа по тендерам с 2012 года
- оформление банковских гарантий
- отсрочки платежей
- поставка электронных компонентов по проектным ценам
- инженерная поддержка проектов заказчиков
- сертификат системы менеджмента качества ISO 9001-2015
- необходимые сертификаты и лицензии

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