GA30-V

GPS Line Amplifier

RoHS

- **Applications: GPS Signal Indoor, Timing, Survey, Wireless Communication etc.**
- **Gain : 0~30dB, Variable options available .**
- **Response For GPS/Glonass/Galileo/Beidou2/IRNSS/OmniStar**
- **Pass DC.**

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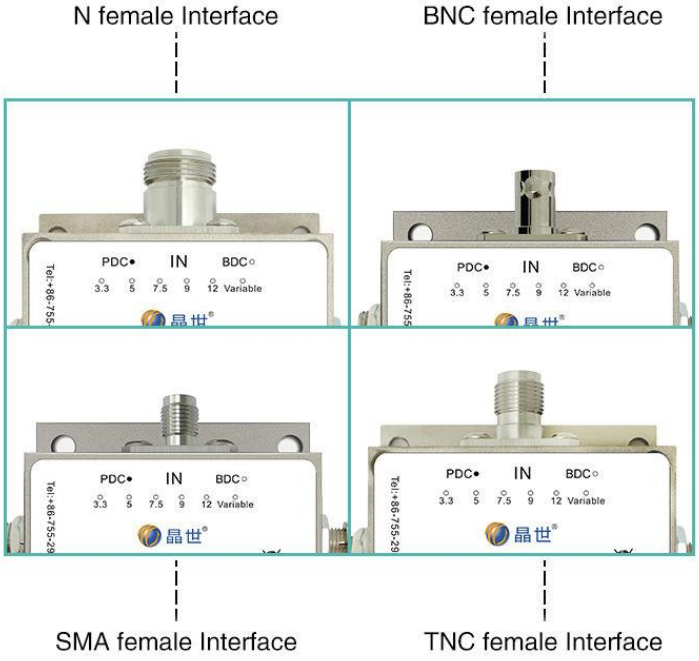
Description

The GA30-V Line amplifier is a single stage gain block in a small form factor that covers the GPS, Galileo, and GLONASS, Beidou2 frequencies. The device features 0~30dB gain and a noise figure less than 2dB. Since the product consumes less than 20mA, the device can be placed in line with the receiver antenna and can be powered by the GPS receiver's antenna voltage output.

The GA30-V is available with more options than any competitive product in the market.

Specifications

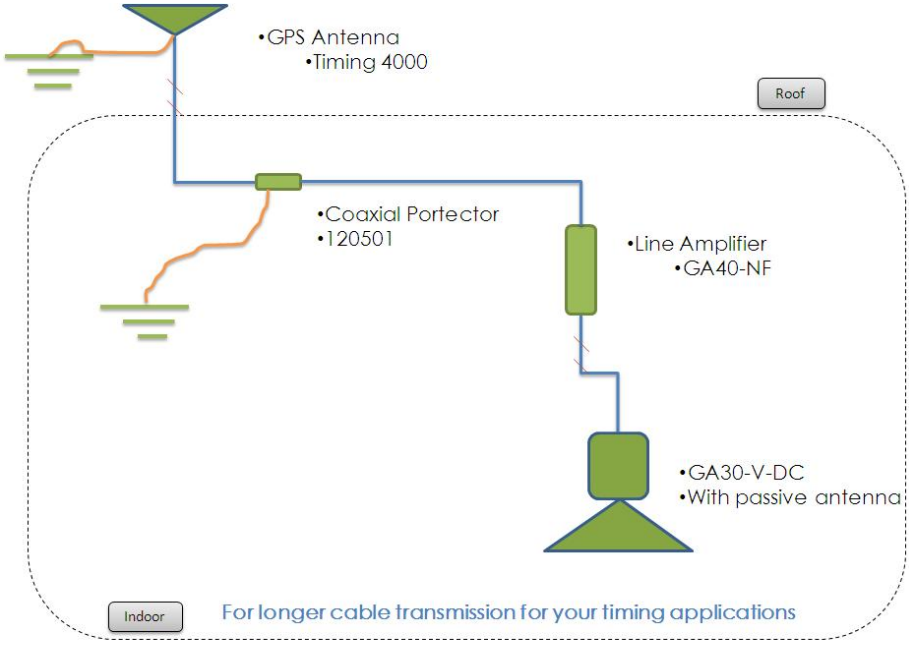
Parameter			Conditions	Min	Typ	Max	Units
Freq. Range			In- Output ports, 50Ω	1.2		1.7	GHz
In &Out Imped.			In, all output ports		50		Ω
Gain	1227MHz		In- Output ports -45dBm Input Level	28	30	32	dB
	1575MHz			28	30	32	
Adjustable gain	1227MHz	Max		29	30	31	
		Min		-4	-2	0	
	1575MHz	Max		29	30	31	
		Min		-2	0	1	
Input SWR						2.5:1	-
Output SWR						2.5:1	-
Nois Figure						2	dB
Gain Flatness						3	dB
Current balance						0.5	dB
Phase Balance						1.0	deg
Group Delay Flatness						1	ns
Device current						16	mA
DC IN			The DC input on the input or output port	3	5	16	VDC
AC supply					220		AC
Max RF Input			Maximum lossless RF input			0	dBm
Operating temperature				-40		85	℃



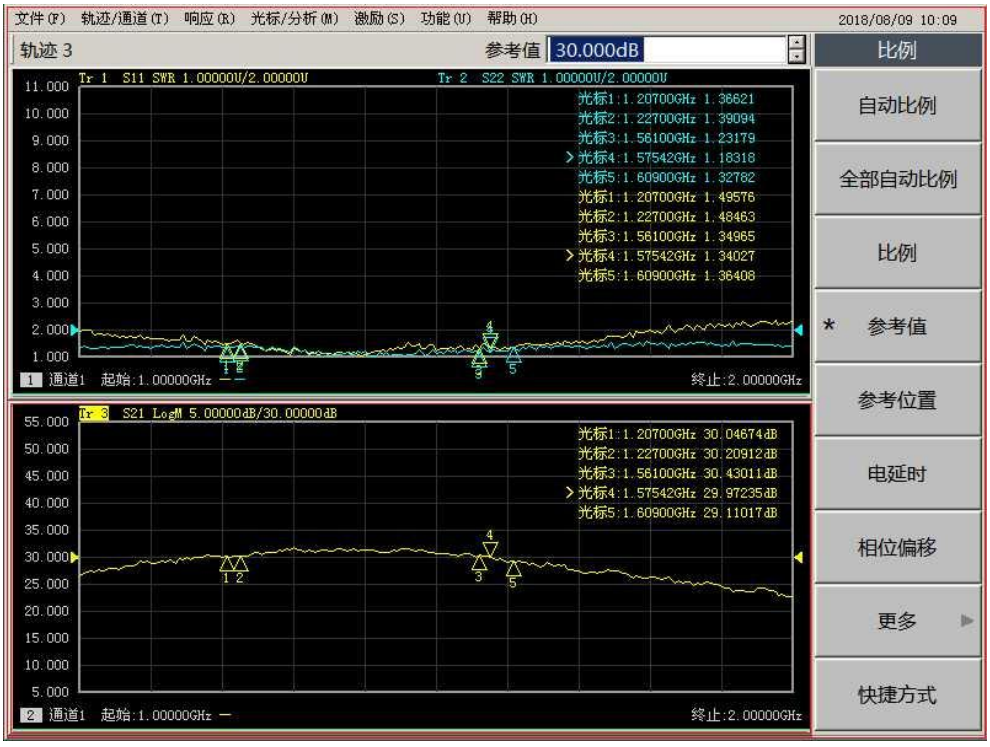
4 interfaces are available: N、BNC、SMA、TNC
users can choose according to the needs.

3C Security Certification
Three power adapters available

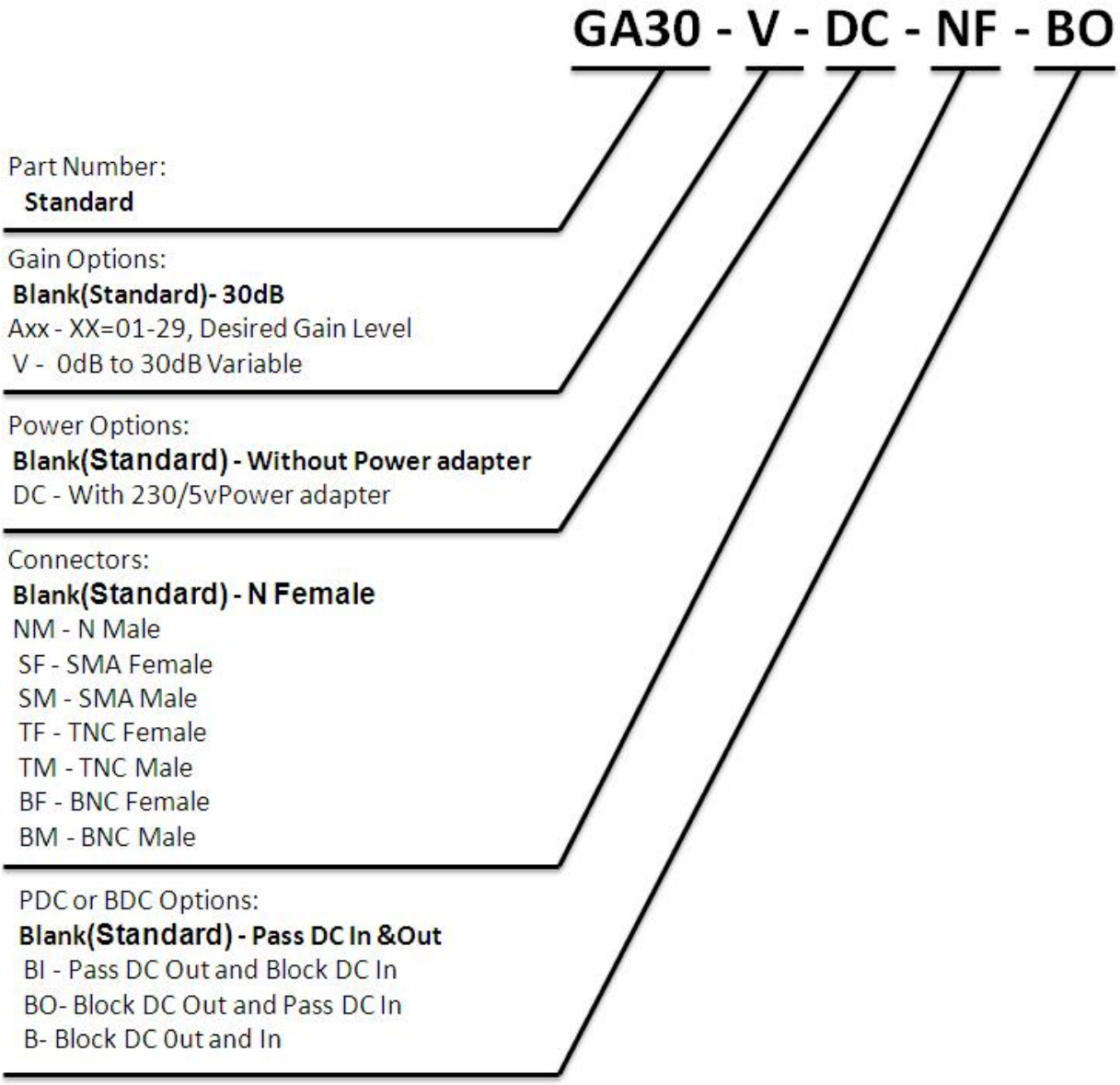
Applications



Permancefor Data

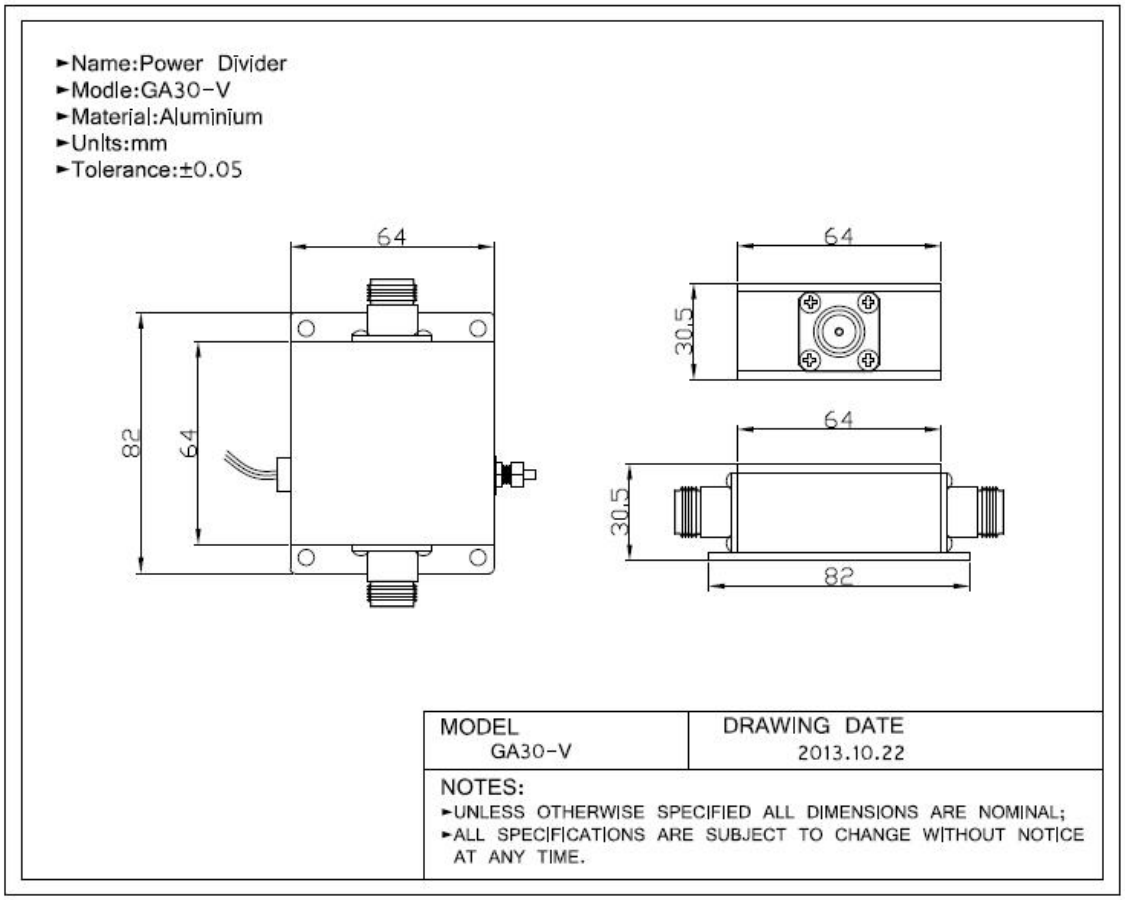


Order Informations And Available Options



Please contact us for more configurations and application supports. Email: Sales@gemsnav.com.

Mechanical



Frequency reference table

Global/Compass Navigation Satellite Systems(GNSS/CNSS)	5						2					6/3				6				1								
Frequency (MHz)	1164	1176	1188	1192	1207	1215	1219	1227	1239	1245	1252	1259	1266	1268	1278	1290	1535	1540	1545	1550	1558	1558	1561	1563	1575	1587	1592	1602	1609	1616	2491
GPS(USA) L1,L2,L2C,L5	L5+/-12						L2/L2C+/-12												L6+/-5					L1+/-12						
Glonass(Russia) G1, G2										G2+/-7																		G1+/-7		
Galileo(European) L1,E1,E2,E5(E5a,E5b),E6	E5+/-15 E5a+/-12 E5b+/-12												E6+/-12						L6+/-5			E2		L1+/-17			E1			
Compass (Beidou 2,China)				B2+/-10									B3+/-10									B1+/-2								
Beidou 1 (China,Tx(LHCP)/Rx(RHCP)																													L	S	
IRNSS (India)			L5+/-15																					L1+/-12						S+/-15
OmniStar																	O+/-14---->														