

GS12

GPS Splitter



- Design For Wireless Infrastructure Applications
- Gain :0dB, 15dB , 24dB And Passive Version Available
- Response For
 - GPS:L1,L2,L2C,L5;
 - Glonass:G1,G2;
 - Galileo:L1,E1,E2,E5(E5a,E5b),E6;
 - Beidou2:B1,B2,B3;
 - IRNSS:L1,L5;
 - OmniStar
- High Isolations > 30dB

Description

The GS12 GPS Splitter is a one-input, two -output GPS device. This product typically finds application where an input from an active GPS roof antenna is split evenly between four receiving GPS units. In this scenario, the GS12 can be configured to pass DC from an RF output (J1) to the antenna input port in order to power an active GPS antenna on that port. The second J2 would feature a 200 Ohm DC load to simulate an antenna DC current draw for any receiver connected to those ports.

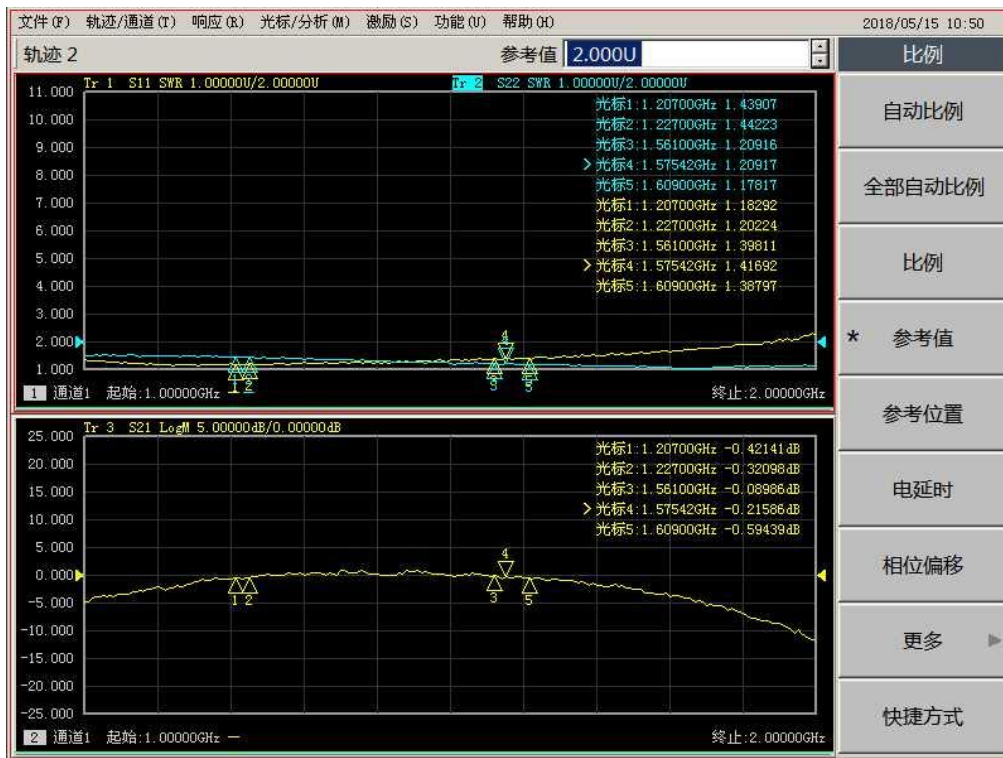
Specifications

Electrical Specifications, Operating Temperature -40 to 85°C

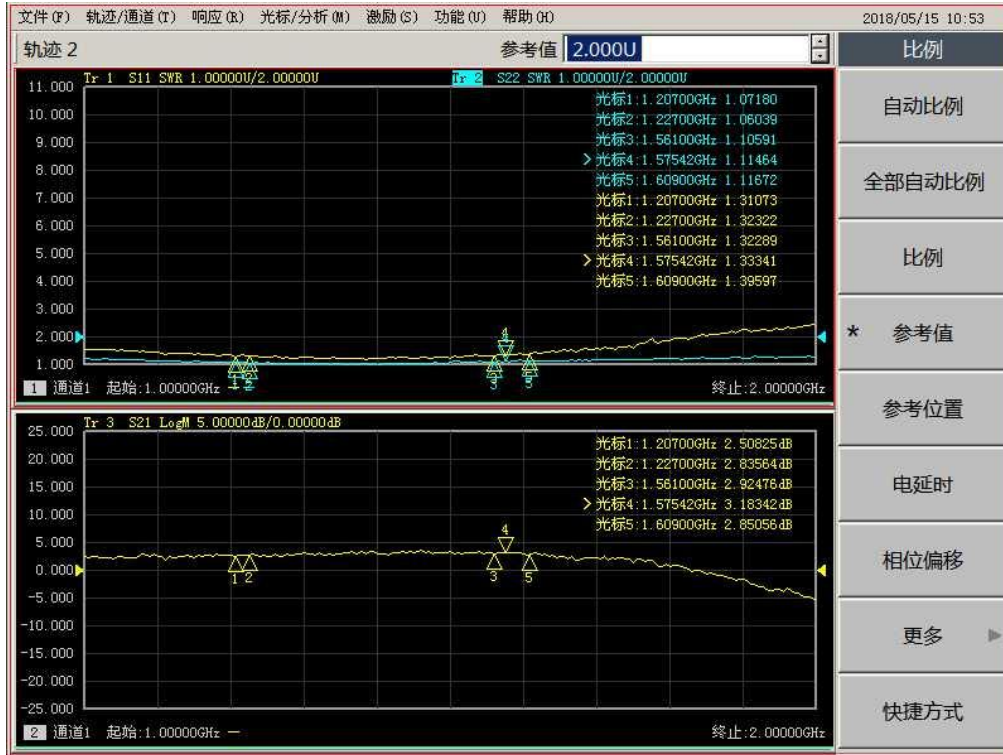
Parameter		Conditions	Min	Typ	Max	Units
Freq. Range		Ant – Any Port	1.1		1.7	GHz
In &Out Imped.		In, all output ports		50		Ω
Gain	0dB	In- Output ports, ,Unused Ports - 50Ω	-1	0	1	dB
	Amplified(Normal)		23	24	25	
Loss, Passive		In- Output ports, ,Unused Ports - 50Ω	4	4.5	5.0	dB
Input SWR					2.0:1	-
Output SWR					2.0:1	-
Nois Figure- Amplified					1.8	dB
Gain Flatness	Amplified				2	dB
	Passive				1	dB
Amp. Balance					0.5	dB
Phase Balance					1.0	deg
Group Delay Flatness					1	ns
Isolation	Amplified (Passive)	Adjacent Ports: In - 50Ω	15			dB
		Opposite Ports: In – 50Ω	21			
	Gain:0dB-15dB	Adjacent Ports: In - 50Ω	30			
		Opposite Ports: In - 50Ω	40			
AC IN		Wall Mount transformer		220		VAC
DC IN	DC Block, All ports with a 200Ω Load				14	VDC
	PASS DC, Amplified		3		16	
	PASS DC, Passive				16	
	Powered, to be specified					

Device Current			16	mA
Current	Pass DC, No Powered configuration, DC input on J1		250	mA
	Powered, to be specified			mA
Max RF Input	Amplified	Max RF input without damage	0	dBm
	Passive		30	

Performance Data



Gain :0dB



Gain :3dB



Gain :21dB

Order Informations And Available Options

GS12 - A - DC - SF - BO

Part Number:

Standard

Gain Options:

Blank(Standard)- 0dB

Axx - xx=01-23, Desired Gain Level

A - Active, 24dB gain

P - Passive,

Power Options:

Blank(Standard) - Without Power adapter

DC - With 230/5V Power adapter

Connectors:

Blank(Standard) - N Female

NM - N Male

SF - SMA Female

SM - SMA Male

TF - TNC Female

TM - TNC Male

BF - BNC Female

BM - BNC Male

PDC or BDC Options:

Blank(Standard) - Pass DC In & J1

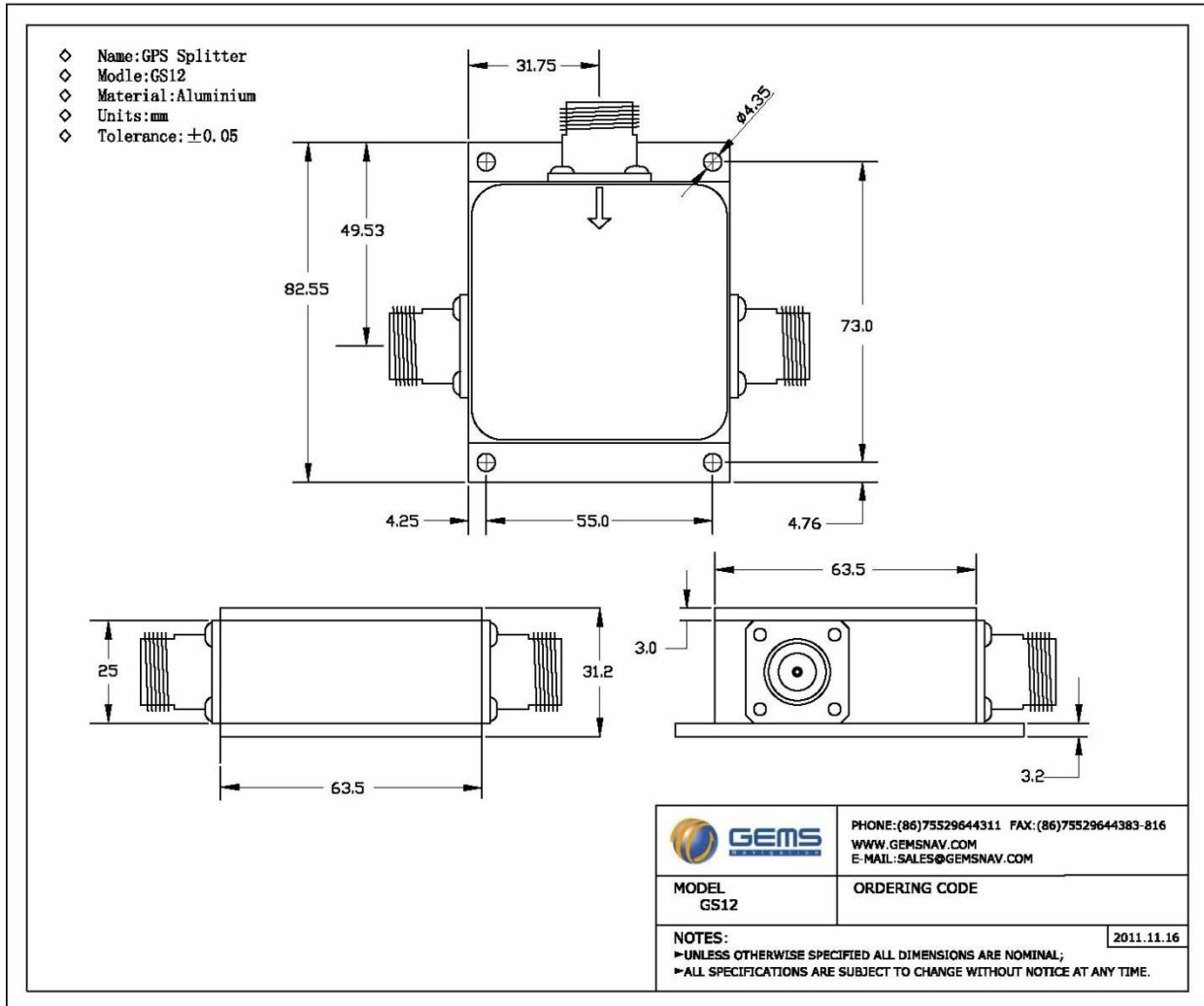
BI - Pass DC on J1 and Block DC In

BO - Block DC Out and Pass DC In

B- Block DC Out and In

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---->															