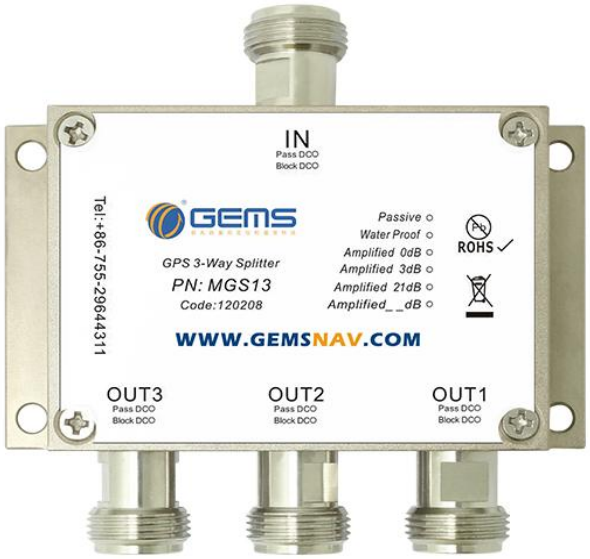
MGS13

GPS Splitter



RoHS

- Design For Wireless Infrastructure Applications
- Gain 0dB, 21dB 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 >28dB

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Description

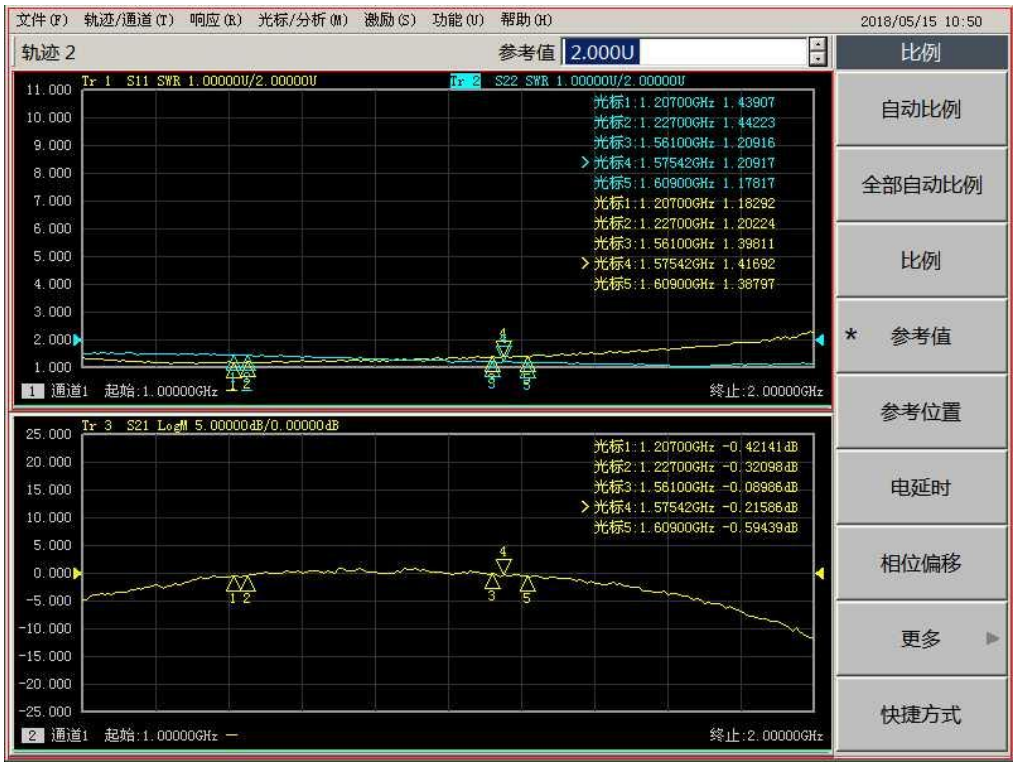
The MGS13 GPS Splitter is a one-input(IN), three-output(OUT1,OUT2,OUT3) GPS device. This product's typically application is that the signal receiving from an active GPS antenna be transmitted to the 3 outputs,then arrived at the receivers which connect to the outputs. Like this, the MGS13 can be configured to pass DC on RF output (OUT1,OUT2,OUT3) ,power the active antenna which connect to the input port . MGS13 can take electricity from the RF outputs automatically. RF outputs (OUT1,OUT2,OUT3) all would feature a 200 Ohm DC load to simulate an antenna DC current draw for any receiver connected to those ports.

Specifications

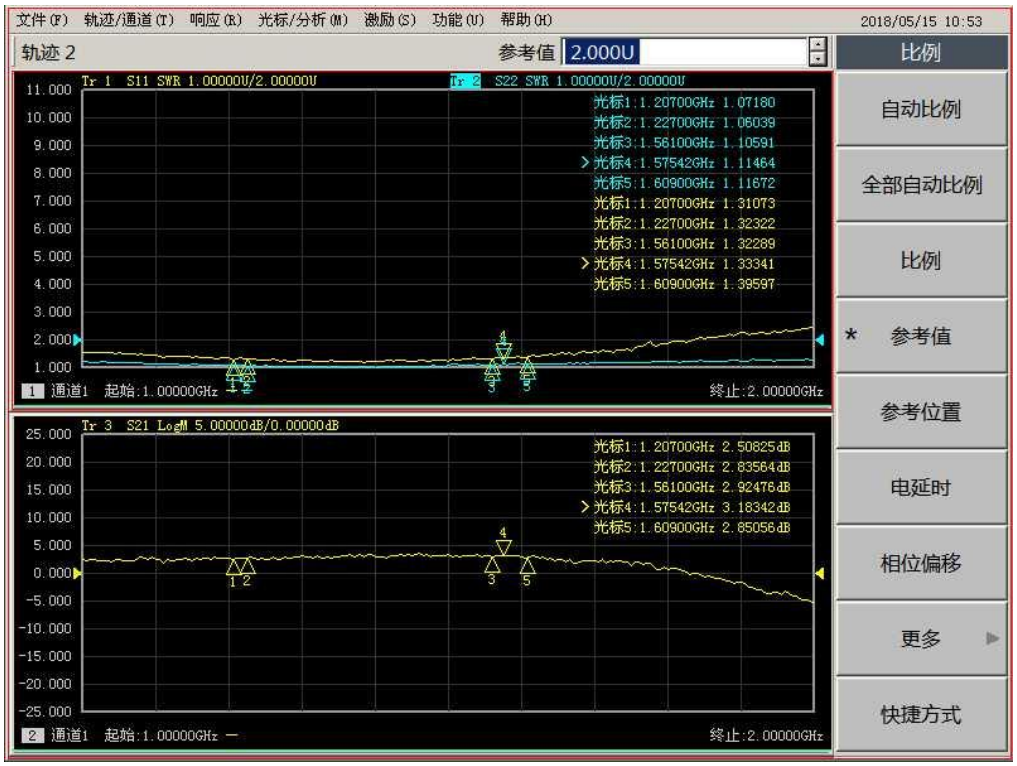
Electrical Specifications, Operating Temperature -40 to 85°c

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 -Amplified(Normal)		In- Output ports, ,Unused Ports - 50**Ω**	-1 20	0 21	1 22	dB
Loss, Passive		In- Output ports, ,Unused Ports - 50**Ω**	6.5	7.5	8.5	dB
Input SWR					1.5:1	-
Output SWR					1.5:1	-
Nois Figure- Amplified					3	dB
Gain Flatness - Amplified: - Passive:					2 1	dB dB
Amp. Balance					0.5	dB
Phase Balance					1.0	deg
Group Delay Flatness					1	ns
Isolation	Passive	Unused Ports - 50Ω(GPS L1)	18			dB
	0~10dB	Input - 50**Ω**	28			
	10~20dB	Input - 50**Ω**	18			
DC IN		DC Block, All out ports with a 200**Ω** Load			14	VDC
		PASS DC, Amplified	3.5		16	
		PASS DC, Passive			16	
Device Current					16	
Current		Pass DC, No Powered configuration, DC input on J1			250	mA
		Powered, to be specified				mA
Max RF Input -Amplified -Passive		Max RF input without damage			0 30	dBm

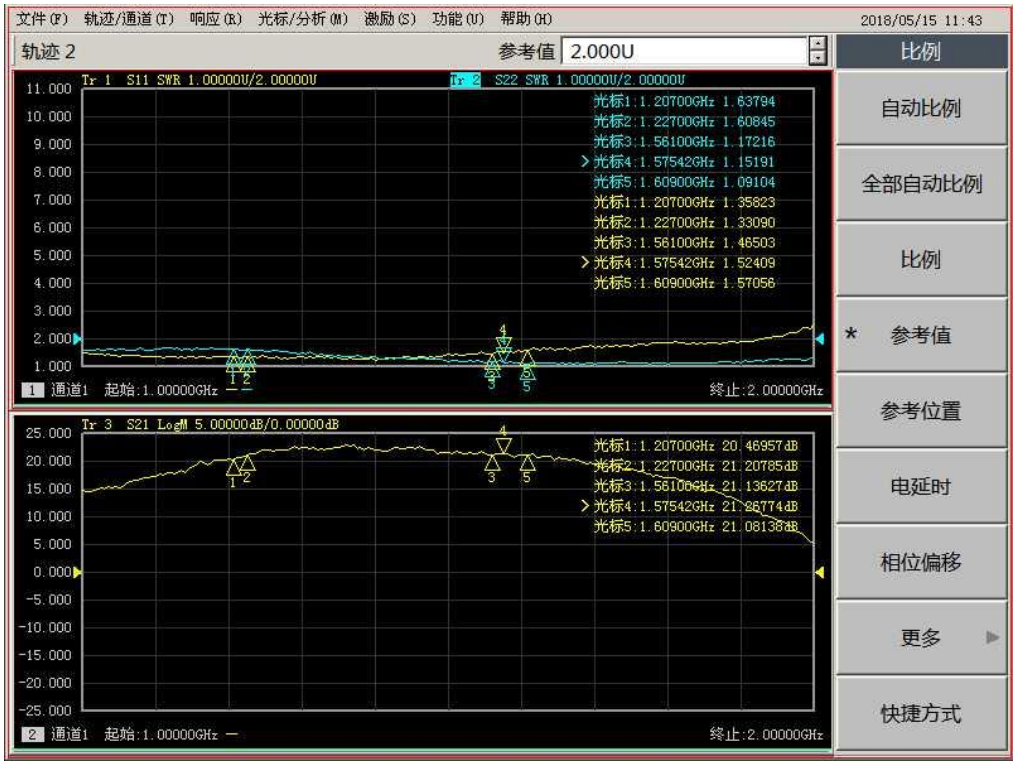
Performance Data



Gain :0dB

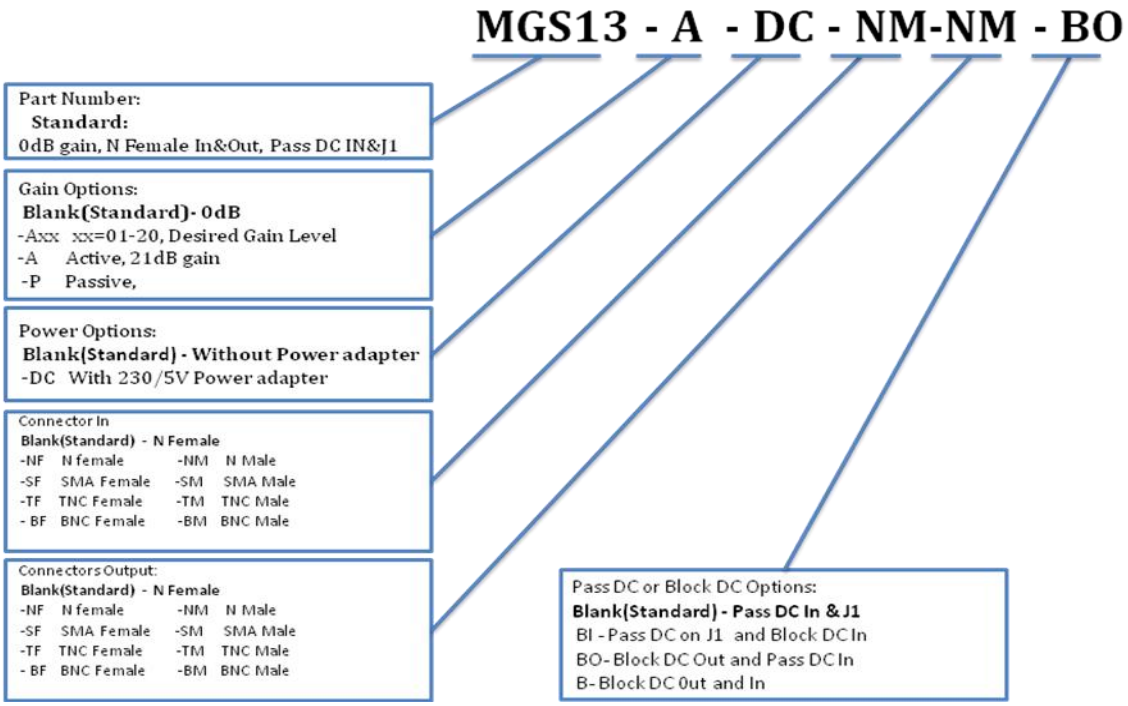


Gain :3dB


文件(F) 轨迹/通道(T) 响应(R) 光标/分析(M) 激励(S) 功能(U) 帮助(H)
2018/05/15 11:43
轨迹 2
参考值 2.000U
比例
Tr 1 S11 SWR 1.00000U/2.00000U
Tr 2 S22 SWR 1.00000U/2.00000U
光标1:1.20700GHz 1.63794
光标2:1.22700GHz 1.60845
光标3:1.56100GHz 1.17216
光标4:1.57542GHz 1.15191
光标5:1.60900GHz 1.09104
光标1:1.20700GHz 1.35823
光标2:1.22700GHz 1.33090
光标3:1.56100GHz 1.46503
光标4:1.57542GHz 1.52409
光标5:1.60900GHz 1.57056
1 通道1 起始:1.00000GHz
终止:2.00000GHz
Tr 3 S21 LogM 5.00000dB/0.00000dB
光标1:1.20700GHz 20.46957dB
光标2:1.22700GHz 21.20785dB
光标3:1.56100GHz 21.13627dB
光标4:1.57542GHz 21.26774dB
光标5:1.60900GHz 21.08138dB
2 通道1 起始:1.00000GHz
终止:2.00000GHz
自动比例
全部自动比例
比例
* 参考值
参考位置
电延时
相位偏移
更多
快捷方式

Gain :21dB

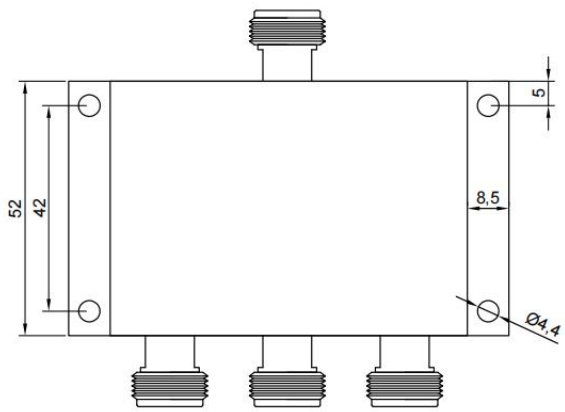
Order Informations And Available Options

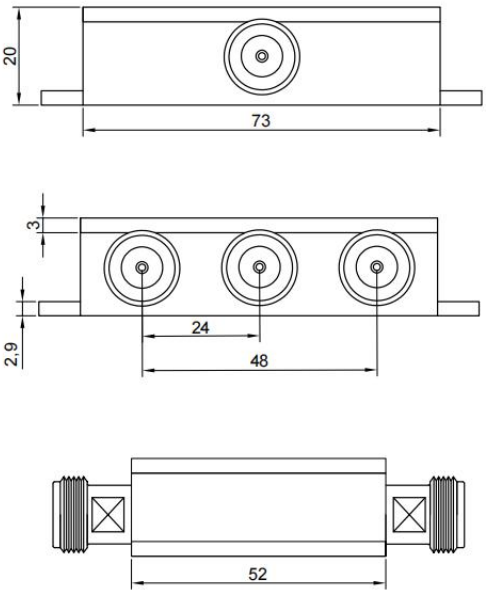


Please contact us for more configurations and application supports. Email: Sales@gemsnav.com.

Mechanical

◊ Name:GPS/GNSS Splitter
◊ Modle:MGS13-NF
◊ Material:Aluminium
◊ Units:mm
◊ Tolerance:±0.5





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MODEL MGS13-NF	DRAWING DATE 2013.01.28

NOTES:
▸UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL;
▸ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.

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(Europian) 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——>														