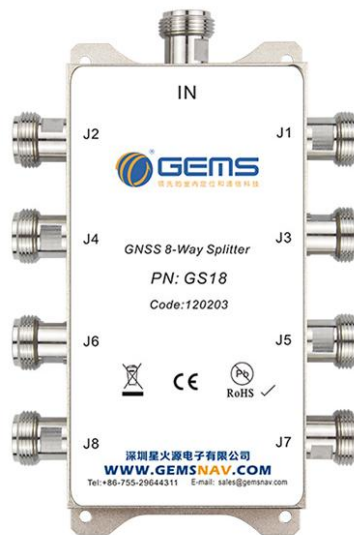


GS18-NF

GPS/GNSS Splitter



- Design For Wireless Infrastructure Applications
- Gain :0dB, 15dB , 24dB (can be specified)
- Frequency Range: 1164MHz~ 1616MHz
- Response For:
GPS/GLONASS/Beidou/Galileo/IRNSS/QZSS/SBAS/NAVIC
- High Isolations > 28dB

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Description

The GS18 GPS Splitter is a one-input, eight-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 GS18 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 others outputs 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	1164		1616	MHz
In &Out Imped.		In, all output ports		50		Ω
Gain	0dB	In- Output ports, ,Unused Ports - 50 Ω	-1	0	1	dB
	Amplified(10dB)		9	10	11	
Input SWR		All Ports 50 Ω			2.0:1	-
Output SWR		All Ports 50 Ω			2.0:1	-
Nois Figure- Amplified		Ant- Any Port, Unused Ports-50 Ω			2.2	dB
Gain Flatness (Amplified)		L1-L2 ,Ant- Any Port, Unused Ports-50 Ω			3	dB
Amp. Balance		J1-J2 , Ant- Any Port, Unused Ports-50 Ω			0.5	dB
Phase Balance		Phase(J1-J2), Ant- Any Port, Unused Ports-50 Ω			1.0	deg
Group Delay Flatness					1	ns
Isolation	Amplified	Adjacent Ports: In - 50 Ω	28			dB
		Opposite Ports: In - 50 Ω	34			
	Gain:10dB	Adjacent Ports: In - 50 Ω	28			
		Opposite Ports: In - 50 Ω	34			
AC IN		Wall Mount transformer		230		VAC
DC IN	DC Block, All ports with a 200 Ω 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

Performance Data



Gain :0dB



Gain :10dB

Order Informations And Available Options

GS18 - A - DC - NM-NM - BO

Part Number:
Standard:
 0dB gain, N Female In&Out, Pass DC IN&J1

Gain Options:
Blank(Standard)- 0dB
 -Axx xx=01-10, Desired Gain Level
 -A Active, 10dB gain
 -P Passive,

Power Options:
Blank(Standard) - Without Power adapter
 -DC With 230/5V Power adapter

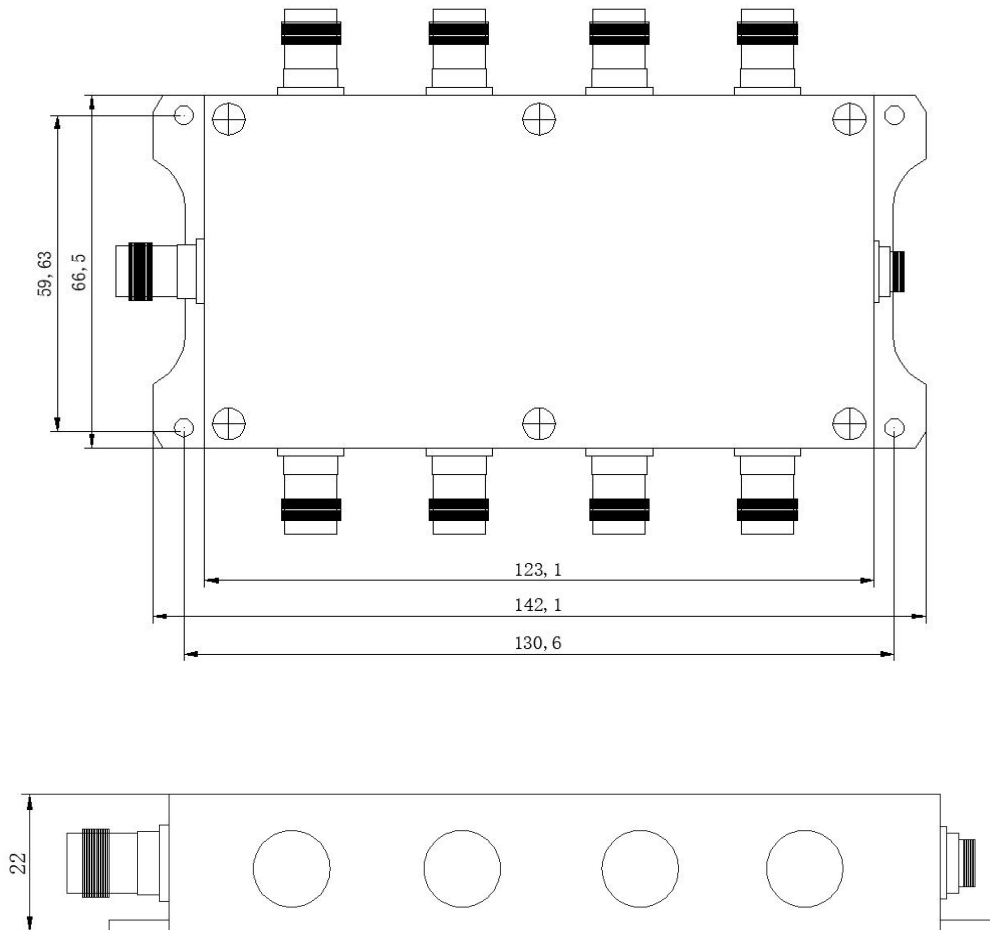
Connector In
Blank(Standard) - N Female
 -NF N female -NM N Male
 -SF SMA Female -SM SMA Male
 -TF TNC Female -TM TNC Male
 -BF BNC Female -BM BNC Male

Connectors Output:
Blank(Standard) - N Female
 -NF N female -NM N Male
 -SF SMA Female -SM SMA Male
 -TF TNC Female -TM TNC Male
 -BF BNC Female -BM BNC Male

Pass DC or Block DC 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 (mm)



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)		S+/-15																					L1+/-12							S+/-15	
OmniStar																O+/-14-->															