MGS12

GPS Splitter



RoHS

- Design For Wireless Infrastructure Applications
- Gain OdB, 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

Description

The MGS12 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 MGS12 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 output (J2)

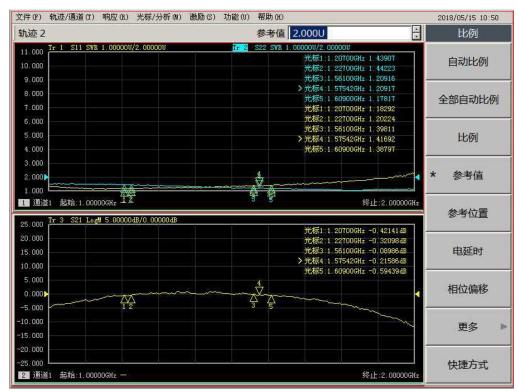
would feature a 200 Ohm DC load to simulate an antenna DC current draw for any receiver connected to those ports.

Specifications

Electrical Specifications, Operating Temperature -40 to 85°c

Param	ieter	Conditions	Min	Тур	Max	Units
Freq. R	lange	Ant – Any Port	1.1		1.7	GHz
In &Out	Imped.	In, all output ports		50		Ω
Gai -0d		In- Output ports, ,Unused Ports - 50Ω	-1	0	1	dB
-Amplified		iii- Output ports, , oiluseu Ports - 3012	20	21	22	uв
Loss, Pa	assive	In- Output ports, ,Unused Ports - 50Ω	3.5	4.5	5.5	dB
Input	SWR				1.5:1	-
Output	SWR				1.5:1	-
Nois Figure-	Amplified				3	dB
Gain Fla - Am	atness plified:				2	dB
	ssive:				1	dB
Amp. Ba	alance				0.5	dB
Phase B	alance				1.0	deg
Group Dela	y Flatness				1	ns
	Passive	Unused Ports - 50Ω(GPS L1)				
Isolation	0~10dB	Input - 50 Ω			dB	
	10~20dB	Input - 50 Ω				
		DC Block, All out ports with a 200Ω Load			14	
DC	IN	PASS DC, Amplified	3.5		16	VDC
		PASS DC, Passive			16	
Device C	Current				16	
Curr	ent	Pass DC, No Powered configuration, DC input on J1			250	mA
		Powered, to be specified				mA
Max RF -Ampl		Max RF input without damage			0	dBm
-Pass	sive				30	

Performance Data



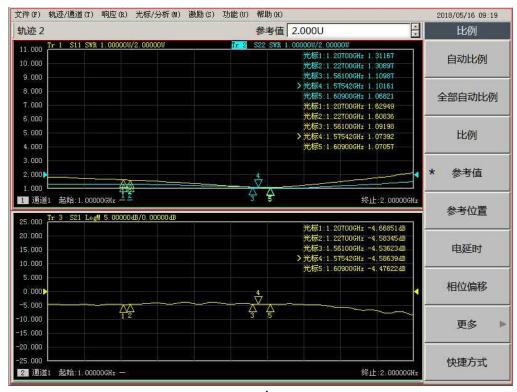
Gain:0dB



Gain:3dB



Gain:21dB



passive

MGS12 - A NM -NM - BO

Part Number:

Standard:

0dB gain, N Female In&Out, Pass DC IN&J1

Gain Options:

Blank(Standard)- 0dB

-Axx xx=01-20, Desired Gain Level

- -A Active, 21dB gain
- -P Passive,

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.



CERTIFICATE OF CONFORMITY

No.: U01603201209605-1E

Floor 2, Building 6, Rundongsheng Industrial Zone, Longzhu Community Shenzhen GEMS NAVIGATION Electronics Co., Ltd. Xixiang Street, Bao'an District, Shenzhen, China

Address

Floor 2, Building 6, Rundongsheng Industrial Zone, Longzhu Community Shenzhen GEMS NAVIGATION Electronics Co., Ltd. Manufacturer

Xixiang Street, Bao'an District, Shenzhen, China Address

Trade Mark

GPS Splitter MGS12 Sample Name Model No. The submitted sample of the above equipment has been tested and found to comply with the following European Directive:

RoHS Directive 2011/65/EU & (EU) 2015/863

The standard(s) used for showing compliance with the essential requirements

9-2-0 0 15 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Test Report(s) Number	U01603201209605-1E
	Applicable Standard(s)	IEC 62321-1:2013, IEC 62321-2:2013 IEC 62321-3-1:2013, IEC 62321-3:2:2013 IEC 62321-4: 2013-14-1:2017, IEC 62321-5:2013 IEC 62321-6:2015, IEC 62321-7: 2015 IEC 62321-7:2: 2017, IEC 62321-8: 2017

Directive 2011/65/EU & (EU) 2015/863 of the European Parliament and of the Council with regard to the restriction of the use of certain hazardous substances in electrical and electronic equipment. It is possible to use CE marking to The submitted samples have been tested by UONE with the listed standards and found in conformity with the demonstrate the conformity with this Directive.

This certification is part of the full test report(s) and should be read in conjunction with it. The certificate is based on a ngie evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. Other CE marking directives may apply have not been considered during the RoHS assessment.

The CE mark as shown below can be used under the responsibility of the relevant finished-product manufacturer tter completion of an EU Declaration of Conformity and compliances with all relevant EU Directives.



Technical Directo Dec. 23, 2020 - FUEN

Shen Zhen UONE Test Co., LTD.

rel: 0755-23695858

Test Report

Query Password: QW2664 Date: Dec. 28, 2020 Report No.:U01603201209605-1E

Page 1 of 8

Floor 2, Building 6, Rundongsheng Industrial Zone, Longzhu Community, Xixiang Shenzhen GEMS NAVIGATION Electronics Co., Ltd. Applicant:

The following sample(s) was (were) submitted and identified by client as:

Street, Bao'an District, Shenzhen, China

Contact information:

MGS12 GPS Splitter Sample Name Model No.

Shenzhen GEMS NAVIGATION Electronics Co., Ltd.

Floor 2, Building 6, Rundongsheng Industrial Zone, Longzhu Community, Xixiang Street, Bao'an District, Shenzhen, China Address

Sample Received Date Testing Period Please refer to next page(s). Test Result(s)

Please refer to next page(s).

Test Request

Signed for and on behalf of Shen Zhen UONE Test Co., LTD. Checked by

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

| Hotine.400-774-3358 | Tel.+86-755-2569588 | Shen Zhen UONE Test Co., LTD. | Webxwww.uonetest.com | Webxwww.uonetest.com | Resp. www.uonetest.com | Resp. www.uonetest.co

Fax +86-755-23699878 E-mail:service@uonetest.co

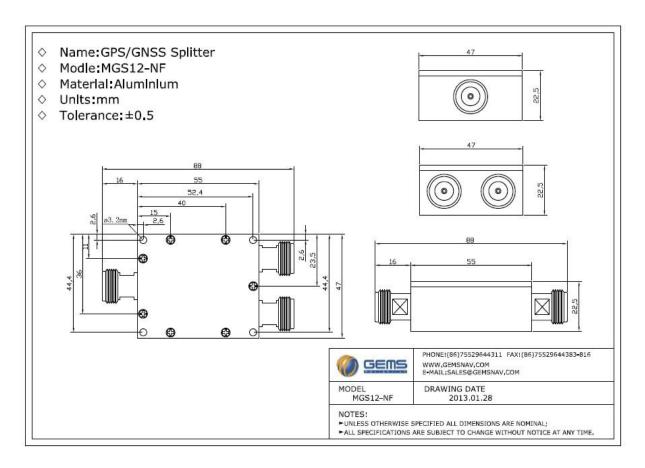
Manufacturer

From Dec. 9, 2020 to Dec. 23, 2020 Dec. 9, 2020

(area Marcia Deng

Nora Deng

Mechanical



Frequency reference table:

Gllobal/Compass Navigation Satellite Systems (GNSS/CNSS)	5									2		6/3						6			1											
Frequency (MHz)		1176	1100	11	92	1207	1215	1219	1227	1220	1245	1252	1250	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	15	+/-12					12	2/12	2C+/-	12										L6+/-	5				- 1	L1+/-	12					
Glonass(Russia) G1,G2												G2+/	-7																	G1+/-;	7	
Galileo (Europian) L1,E1,E2,E5 (E5a,E5b),E6	ш	E5a+/-	+/- 12		b+/	′ - 12		H							E6+.	/-12				L6+/-	5		į	E2		L1+/-	17		Е	1		
Compass (Beidou 2,China)					B2+	/-10								В	3+/-10									B1+/-¦	2							
Beidou 1 (China,Tix(LHCP)/Rx(RHCP)																															L	S
IRNSS (India)				L5+/	-1 5																					L1+/-	12					S+/-15
OmiStar OmiStar																			O+	-/-14-		>										