

MLA20RPDC

Mini Line Amplifier Technical Product Data



Features

- Amplifier Gain of 20dB
 - Gain ≥ 20dB
- Small Form Factor

2.5 (not including connectors) x 0.75 x 0.875 in.

Extremely Flat Group Delay

Less that 1ns variation

Excellent Gain Flatness

Gain | L1 - L2 | < 1.0 dB

• Excellent 1dB compression point, 3rd order intercept

Description

The MLA20RPDC GPS Line Amplifier (GNSS Line Amplifier) is a one input, one output device with 20dB gain typical in a miniaturized housing. The frequency response covers the GPS L1, L2, L5, Galileo and GLONASS frequencies (entire L-band) with excellent gain flatness. In the normal configuration, the RF output (J1) passes DC from the connected GPS receiver through the amplifier to the antenna, allowing the GPS receiver to power both the antenna and the mini amplifier.



Contact NavtechGPS for product details. www.NavtechGPS.com +1-703-256-8900 • 800-628-0885 • info@navtechgps.com

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Electrical Specifications, $T_A = 25^{\circ}C$

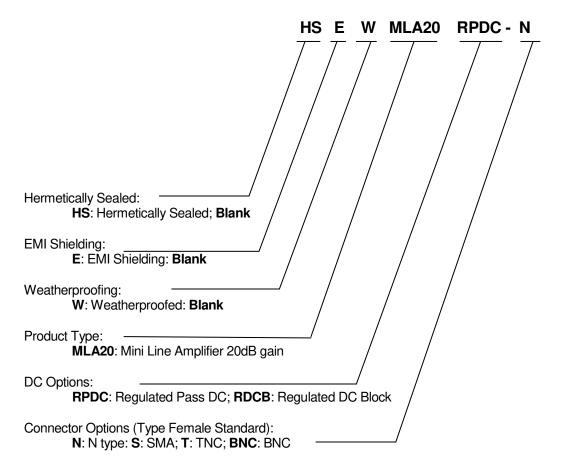
Parameter	Conditions	Min	Тур	Max	Units
Freq. Range	Ant – J1	1.1		1.7	GHz
In/Out Imped.	Ant, J1		50		Ω
Gain	Ant – J1	19	20	21	dB
Input SWR	J1 - 50Ω			1.8:1	-
Output SWR	Ant - 50Ω			1.8:1	-
Noise Figure	Ant – J1		3.3	3.5	dB
Gain Flatness	L1 – L2 ; Ant – J1		0.5	1	dB
Reverse Isolation	J1 – Ant	35			dB
Group delay	τ _{d.max} - τ _{d.min} : Ant – J1			1	ns
Flatness	-, -: -,				
1dB compression	Ant – J1		-32		dBm
3 rd order intercept	Ant – J1 referred to output		-22		dBm
Req. DC Input V.	DC Input on J1	3.6		15	Vdc
Current	Amplifier Current Draw, All ports - 50Ω			15	mA

Available Options

Pass/Block DC Options				
Pass DC	Pass DC J1 to Ant.			
DC Blocked	Ant is DC blocked, Pass DC J1			
RF Connector Options				
Connector Options	CONNECTOR STYLE			
	Type N-female			
	Type SMA-female			
	Type TNC-female			
	Type BNC-female			

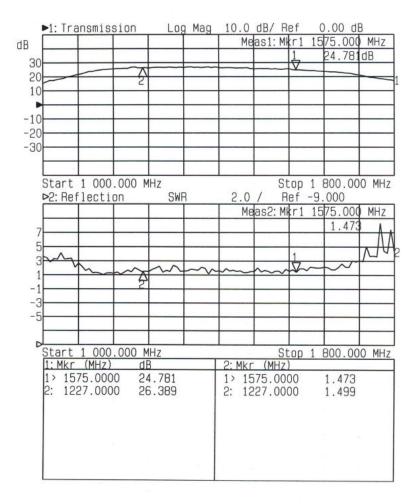
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Part Number



Performance

Input SWR (Ant. Port) and Frequency Response: Ant. To J1 (Typical, type N conn.):



Mechanical

Dimensions:

Height: 0.875"

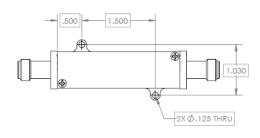
Length (not including connectors) Body: 2.5"

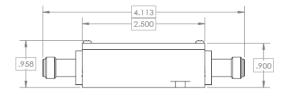
Width: 0.75" (+0.438" including mounting tabs)

Weight:

3.13 oz. (88.7 grams)

Operating Temp. Range: -40° to + 75°C







GPS NETWORKING	ASSY, 1X	1 MINI	Po Not Scale Dwg Hemove As sum And Charp Edges
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SPSE Industrial Styd Powbler West CO-91607	Tres Arge Projection Moterna -	SEE RWY SHEET B B I OF 1	Angury Train Colora Strain Colora Total Colora Colo