

# AT11

## GPS Fixed Attenuator

### Description

Designed specifically for use in all L-Band channels of Global Navigation Satellite Systems (GNSS), the AT11 fixed attenuator provides a user specified attenuation from 1 to 25dB. The AT11 also includes the option to pass the receive antenna LNA DC bias voltage through the device or to block the DC path to the antenna.

### Features

- Excellent Flat Response
- Supports L1/L2 GPS and GNSS Frequencies



AT11



AT11M

### Options

- Pass DC or DC Block
- EMI Shielding, Hermetically Sealed, and/or Waterproof

The AT11 attenuator comes with many available options to meet your specific needs. Please email [GPSS-Sales@gd-ms.com](mailto:GPSS-Sales@gd-ms.com), or call 719-421-7300, or visit our website [www.gpssource.com](http://www.gpssource.com) for further information on product options & specifications.

## AT11 Specifications

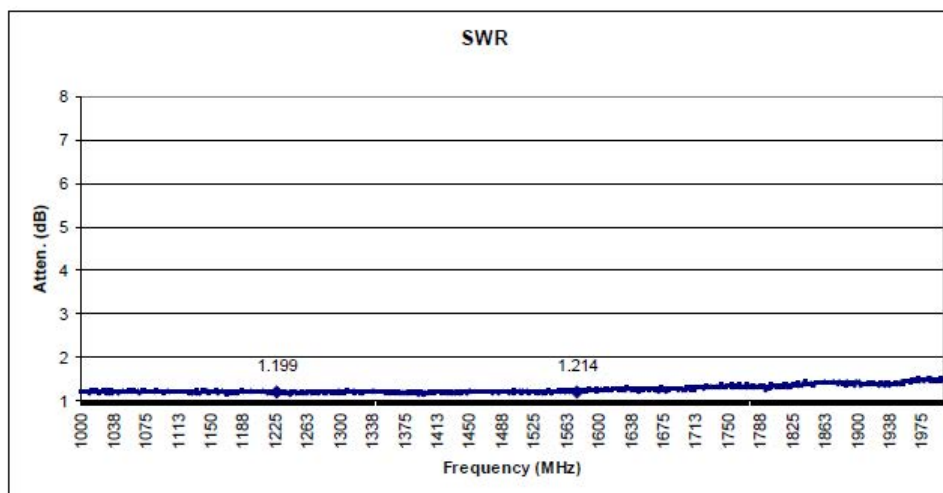
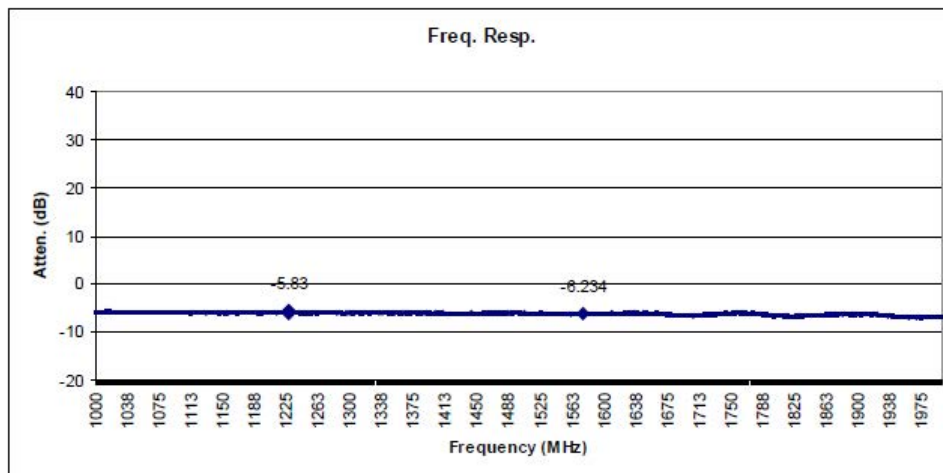
## AT11

**Table 1-1: Electrical Specifications**

Operating Temperature -40°C to 85°C

Parameter	Conditions	Min	Typical	Max	Units
Freq. Range	IN – OUT, IN/OUT-50Ω	1.1		1.7	GHz
In/Out Imped.	IN, OUT		50		Ω
Attenuation <sup>(1)</sup>	IN – OUT, IN/OUT-50Ω	0	As Specified	25	dB
Input SWR	OUT Port - 50Ω			1.5:1	-
Output SWR	IN Port - 50Ω			1.5:1	-
Gain Flatness	L1 - L2 , IN – OUT, IN/OUT-50Ω			0.5	dB
Inline Voltage	DC Input on IN/OUT port	-		25	VDC
Ant/Thru Current	DC Input on IN/OUT port			250	mA
Max RF Input	Max RF input without damage			10	dBm

Notes: (1): Performance guaranteed for N(F) connectors



## Product Options

<b>RF Connector Options:</b>		
Connector Options	Connector Type	Limitations
	N (Male & Female)	N/A
	SMA (Male & Female)	N/A
	TNC (Male & Female)	N/A
<b>Housing Options:</b>		
Housings	Housing Type	Limitations
	Standard	
	Mini	
<b>Port Options:</b>		
Pass DC	Input Output Pass DC	
DC Blocked	Output Blocks DC	

## Product Code Decoder

**AT11- XX - E - NF**

**AT11**

AT11 = Standard  
AT11M = Mini

**Custom Attenuation Option**

XX = Custom Attenuation Range 01-25  
(1dB to 25dB)

**Connector Option**

NF = N Female  
SF = S Female  
TF = TNC Female  
NM = N Male  
SM = SMA Male  
TM = TNC Male

**Options**

E = EMI Shielding (Includes waterproofing)  
HS = Hermetically Sealed (Includes waterproofing)  
W = Waterproof

*Note: To have product/part codes customized to meet exact needs, contact GPS*

Source at [GPSS-Sales@gd-ms.com](mailto:GPSS-Sales@gd-ms.com) or visit the website at

[www.gpssource.com](http://www.gpssource.com)

## GENERAL DYNAMICS

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