

A11T Amplifier

(A11T SHOWN BELOW)

Features

- ❖ Excellent Noise Figure
 - $F < 1.8\text{dB}$
- ❖ Excellent Gain
 - $G = 30\text{dB}$
- ❖ Passes L1, L2, L5 GPS, GLONASS, Galileo & Compass
- ❖ RoHS & WEEE Compliant



Description

Designed with the thin link margins of satellite navigation systems in mind, the A11T Amplifier is a single stage gain block that covers the GPS, Galileo, and GLONASS frequencies. The device features 30dB of gain and a noise figure of less than 1.8dB. Since the product consumes less than 16mA, it is easily powered by any GPS receiver's antenna voltage output.

The A11T is an inline device designed to strengthen the signal and reach of the entire L-band. The A11T amplifier comes with many available options to meet your specific needs. Please call, fax, email (sales@gpssource.com), or visit our website (www.gpssource.com) for further information on product options & specifications.

A11T Amplifier

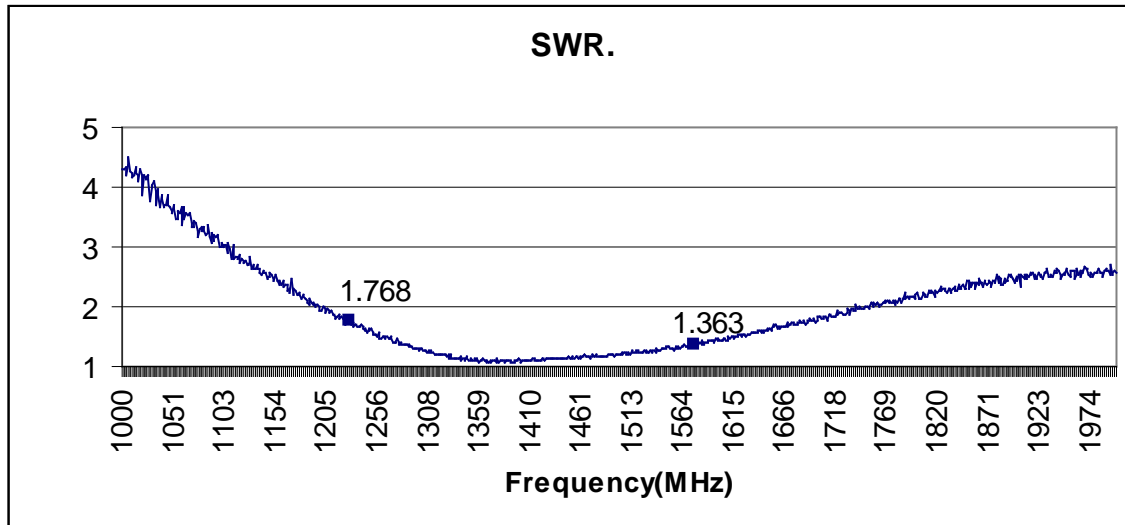
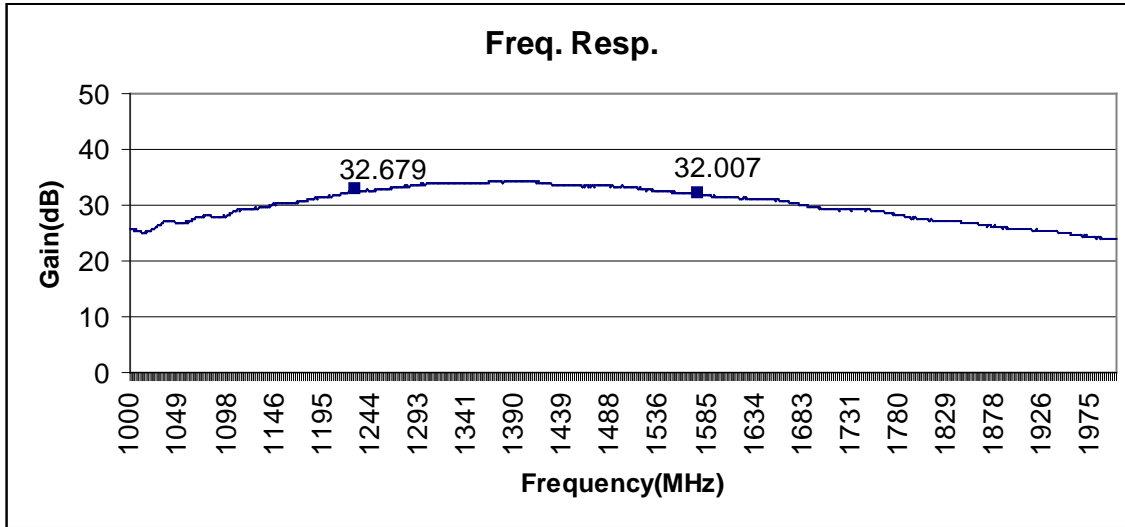
Electrical Specifications, Operating Temperature -40 to 85⁰ C

Parameter	Conditions	Min	Typ	Max	Units
Freq. Range	IN – OUT, IN/OUT-50Ω	1		2	GHz
In/Out Imped.	IN, OUT		50		Ω
Gain 1227MHz 1575MHz	IN – OUT, IN/OUT-50Ω	30 28	32 30	33 32	dB
Input SWR	OUT Port - 50Ω			2.0:1	
Output SWR	IN Port - 50Ω			2.0:1	-
Noise Figure	IN – OUT, IN/OUT-50Ω			1.8	dB
Gain Flatness	L1 - L2 , IN – OUT, IN/OUT-50Ω			4	dB
Group Delay Flatness	T _{d,max} - T _{d,min} , IN – OUT			1	ns
Reverse Isolation	OUT -IN	30			dB
Device Current	Current Consumption of device, excludes Ant. Cur.			16	mA
Ant/Thru Current	Pass DC Non-Powered Configuration, DC Input on OUT port			250	mA
Max RF Input	Max RF input without damage			10	dBm

A11T Amplifier

Performance Data

A11T Amplifier



A11T Amplifier

Available Options:

RF Connector Options:		
Connector Options	Connector Type	Limitations
	SMA (Male & Female)	
Housings	Housing Type	Limitations
	Tiny	Powered Option Not Ava.
Port Options:		
Standard Configuration	Pass DC Input and Output	
<i>Special</i> Configuration	Block DC Input or Block DC Output (cannot block both)	

Part Number:

A11T – A – X-X-X-X – SF

Product:
Standard

Gain Option:
Blank – Default Gain, 30dB
AXX – Custom Gain, XXdB

Environmental Option(s):
E - EMI Shielding (includes waterproofing)
HS - Hermetically Sealed
W - Waterproof

Connector Options:
SF – SMA, Female
SM – SMA, Male