



Amplifier Datasheet

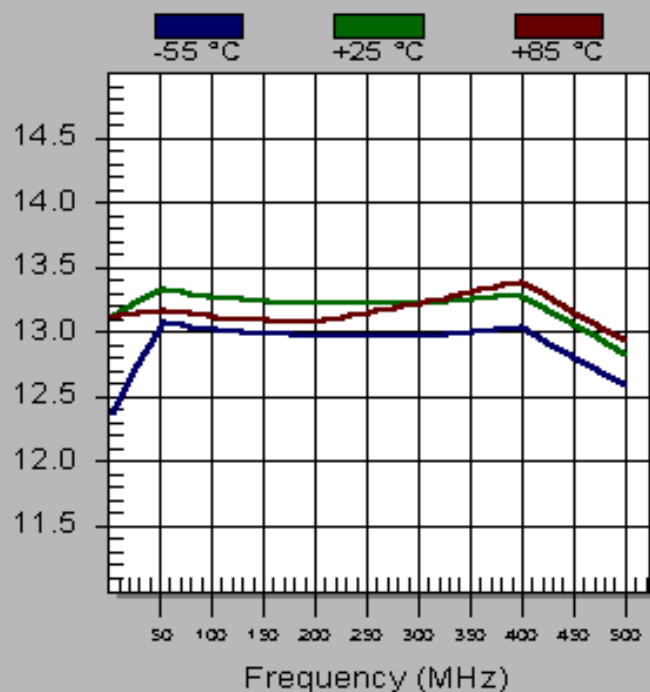
TM5101

Product Data Summary

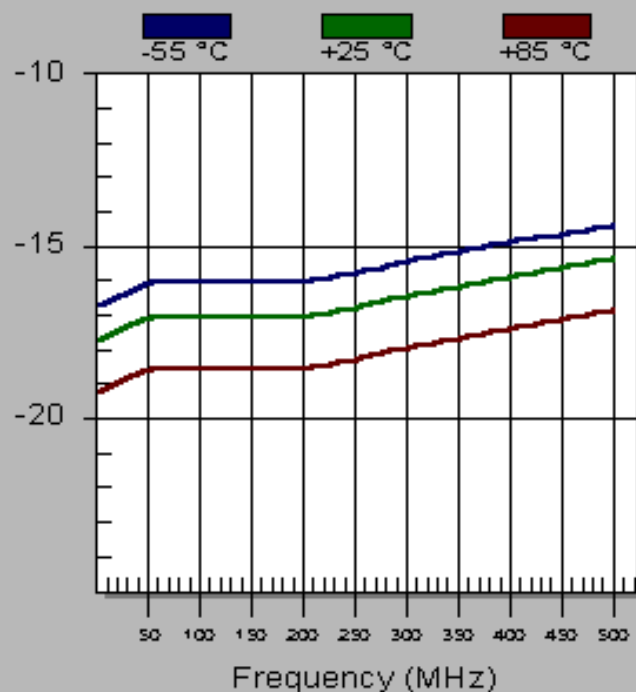
Parameter	Min/Max	Typical
Operating Frequency	5 - 500 MHz	
Noise Figure	4.0 dB	2.8 dB
Gain	12.0 dB	13.0 dB
Power Output (1 dB Compression)	+6.0 dBm	+7.5 dBm
2nd Order Intercept		+31.0 dBm
3rd Order Intercept		+21.0 dBm
Reverse Isolation	-15.0 dB	-15.5 dB
VSWR Input	2.0:1	1.3:1
VSWR Output	2.0:1	1.4:1
DC Voltage		15.0 V
DC Current		17.0 mA

Typical Performance

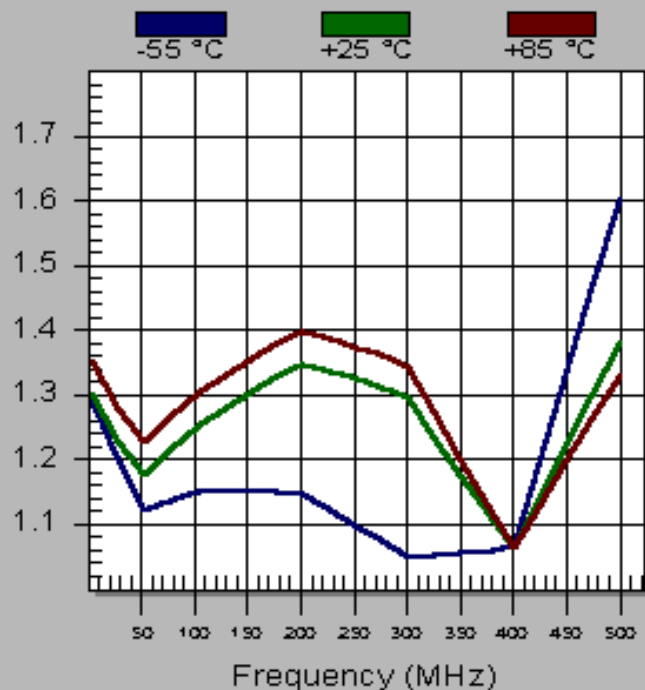
TM5101 Gain (dB)



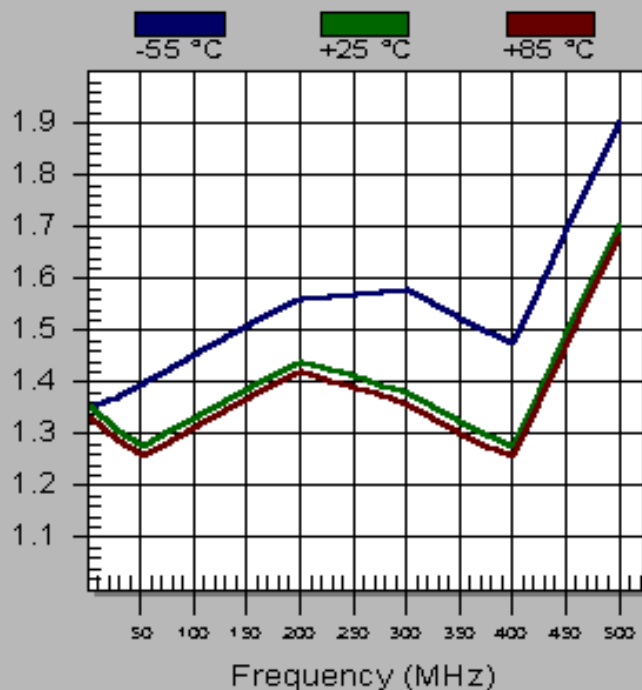
TM5101 Reverse Isolation (dB)

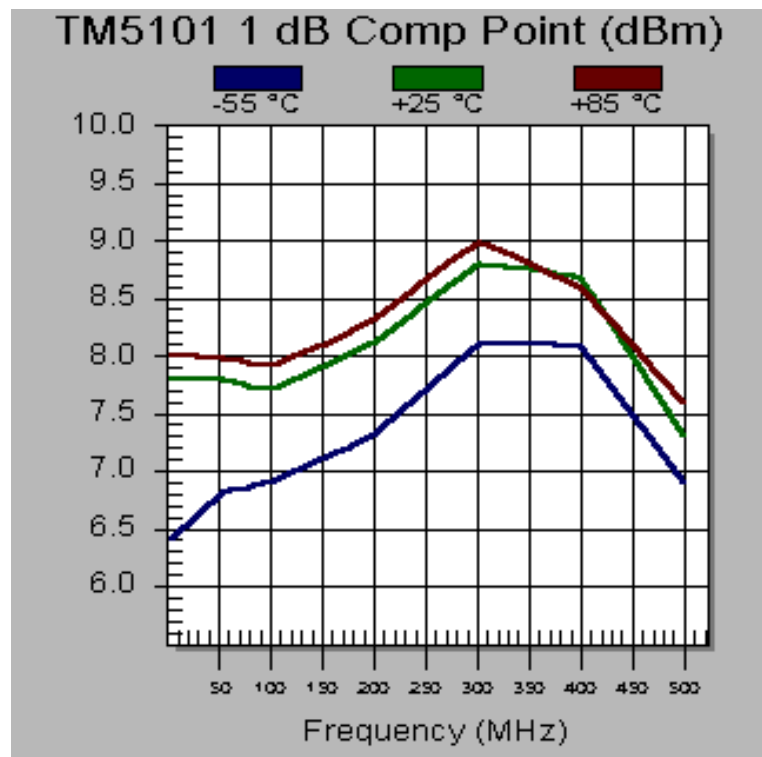
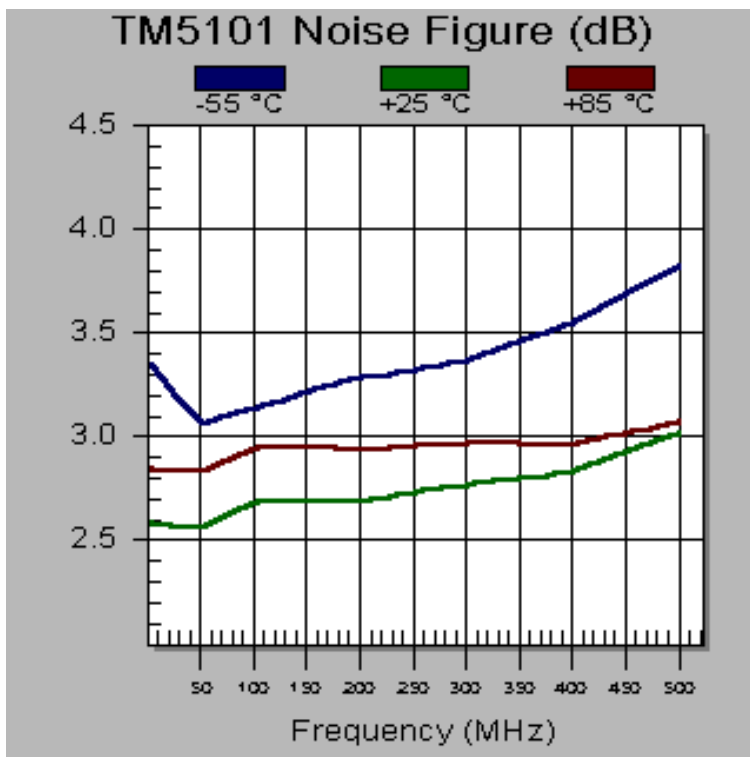


TM5101 Input VSWR



TM5101 Output VSWR





Packaging Options

S-Parameters

Frequency	S11		S21		S12		S22	
(MHz)	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
5	0.130	-48.0	4.53	-165.0	0.1300	-164.0	0.150	-35.0
50	0.080	11.0	4.64	167.0	0.1400	167.0	0.120	5.0
100	0.110	22.0	4.61	153.0	0.1400	150.0	0.140	11.0
200	0.150	8.0	4.58	126.0	0.1400	122.0	0.180	-5.0
300	0.130	-21.0	4.58	98.0	0.1500	94.0	0.160	-42.0
400	0.030	-99.0	4.62	66.0	0.1600	66.0	0.120	-121.0
500	0.160	112.0	4.38	32.0	0.1700	36.0	0.260	155.0

Amplifonix, Inc
 2707 Black Lake Place
 Philadelphia, PA 19154

Phone: (215) 464-4000
 FAX: (215) 464-4001
 E-mail: info@amplifonix.com

Scillasoft Consulting.

Copyright © 1997 Amplifonix, Inc. All rights reserved.

Information in this document is subject to change without notice.