



Amplifier Datasheet

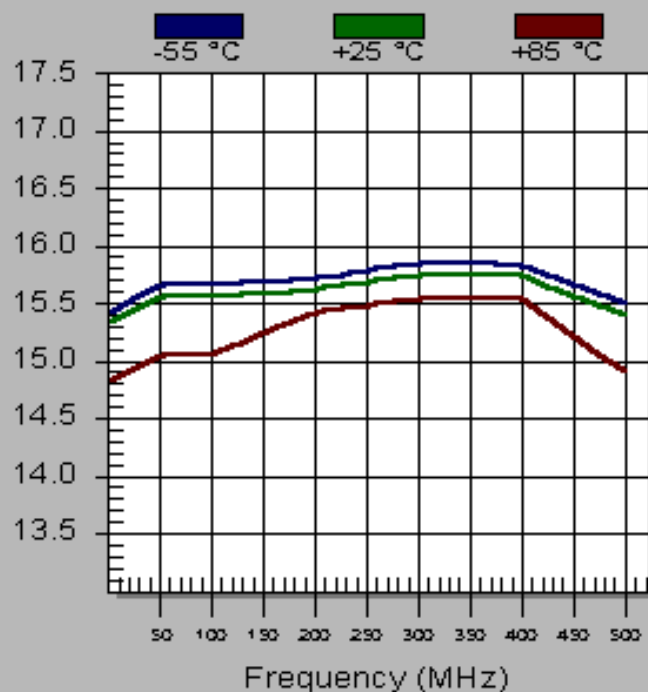
TM5119

Product Data Summary

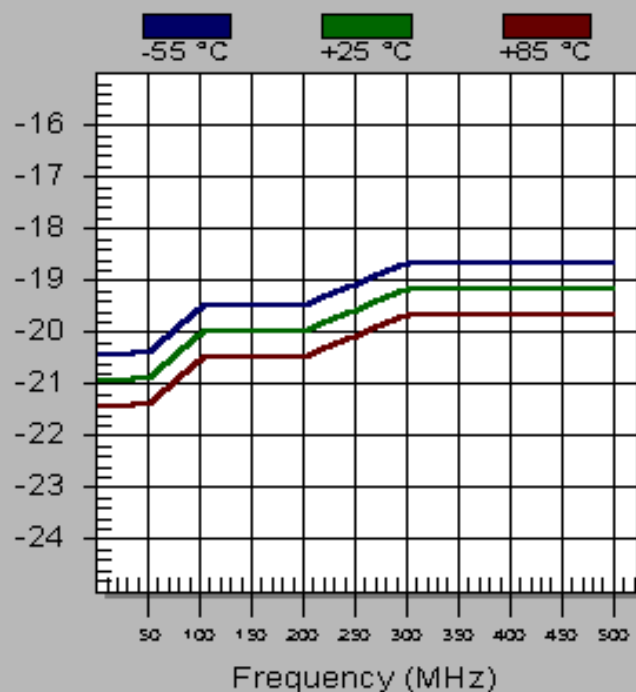
Parameter	Min/Max	Typical
Operating Frequency	5 - 500 MHz	
Noise Figure	3.0 dB	2.3 dB
Gain	14.0 dB	15.5 dB
Power Output (1 dB Compression)	+14.0 dBm	+16.0 dBm
2nd Order Intercept		+44.0 dBm
3rd Order Intercept		+32.0 dBm
Reverse Isolation	-18.0 dB	-19.0 dB
VSWR Input	2.0:1	1.8:1
VSWR Output	2.0:1	1.8:1
DC Voltage		15.0 V
DC Current		30.0 mA

Typical Performance

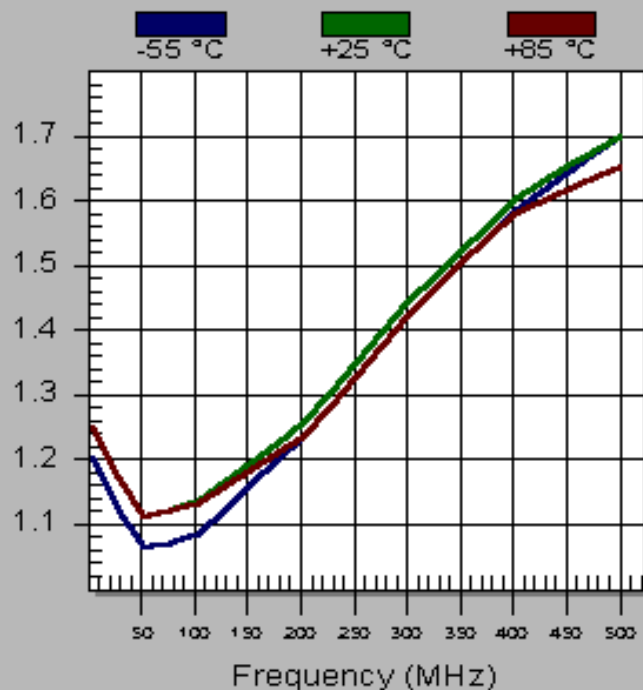
TM5119 Gain (dB)



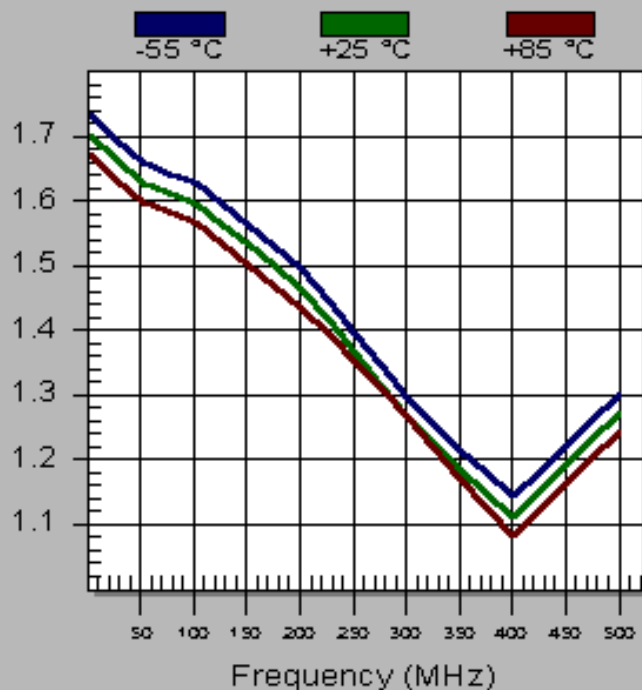
TM5119 Reverse Isolation (dB)



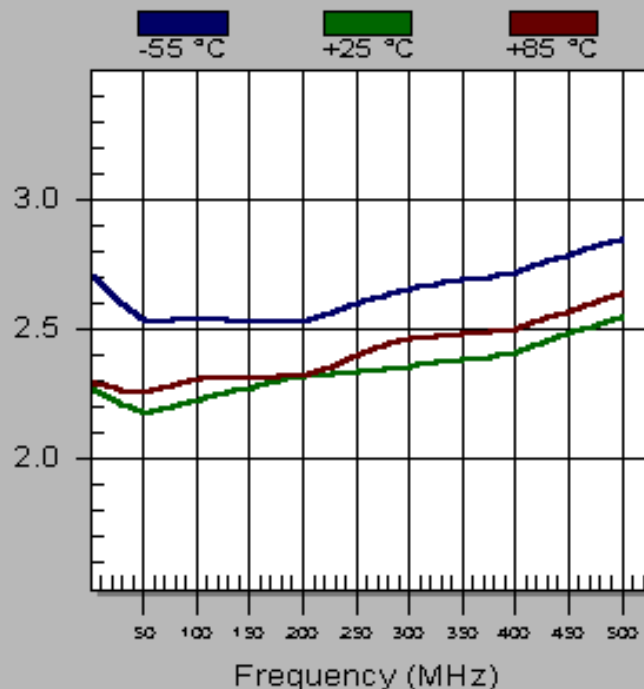
TM5119 Input VSWR



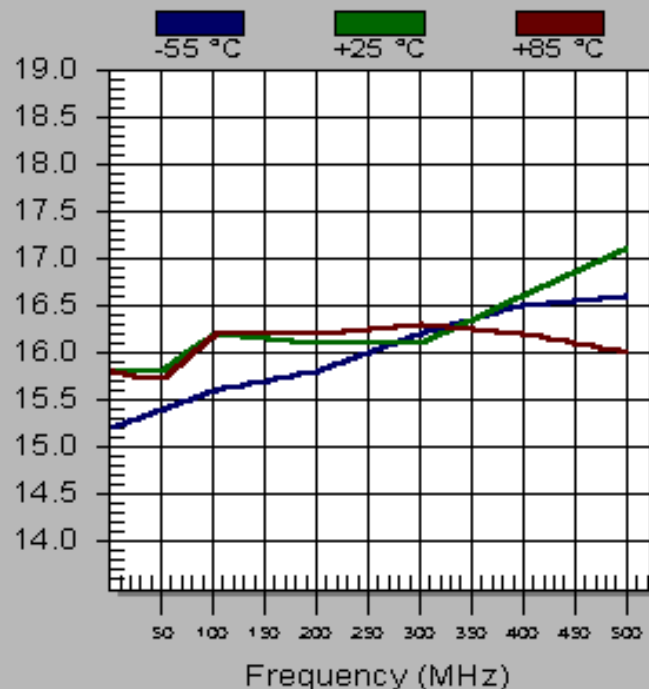
TM5119 Output VSWR



TM5119 Noise Figure (dB)



TM5119 1 dB Comp Point (dBm)



Packaging Options

S-Parameters

Frequency	S11		S21		S12		S22	
(MHz)	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
5	0.110	-57.0	5.84	-164.0	0.0900	-163.0	0.260	-14.0
50	0.050	-29.0	6.00	169.0	0.0900	168.0	0.240	-12.0
100	0.060	-41.0	6.00	157.0	0.1000	151.0	0.230	-22.0
200	0.110	-66.0	6.04	132.0	0.1000	123.0	0.190	-44.0
300	0.180	-100.0	6.13	106.0	0.1100	98.0	0.120	-77.0
400	0.230	-139.0	6.12	78.0	0.1100	75.0	0.050	-150.0
500	0.260	178.0	5.89	48.0	0.1100	52.0	0.120	104.0

Amplifonix, Inc

2707 Black Lake Place
Philadelphia, PA 19154

Phone: (215) 464-4000

FAX: (215) 464-4001

E-mail: info@amplifonix.com

Scillasoft Consulting.

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