



Amplifier Datasheet

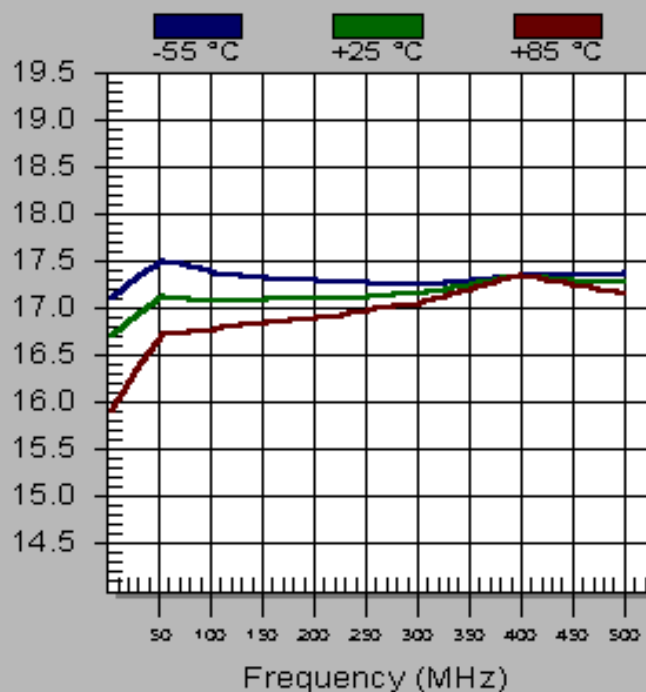
TM6147

Product Data Summary

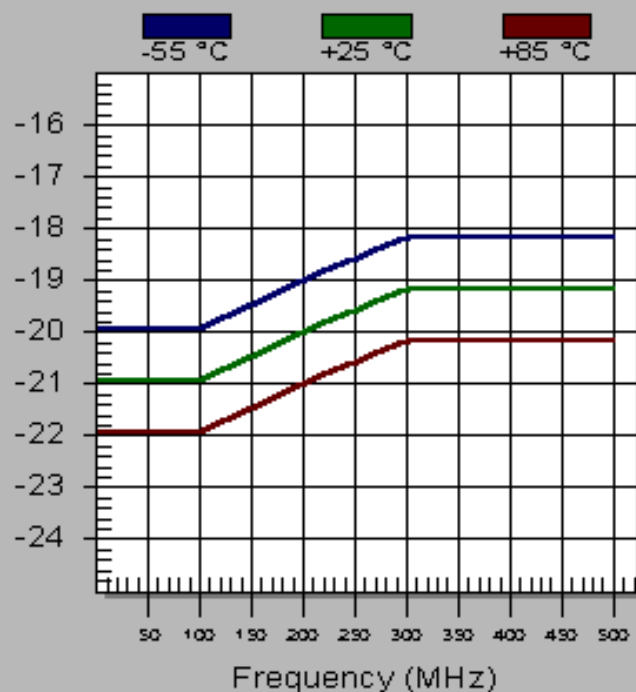
Parameter	Min/Max	Typical
Operating Frequency	5 - 500 MHz	
Noise Figure	4.5 dB	3.0 dB
Gain	16.0 dB	17.0 dB
Power Output (1 dB Compression)	+17.5 dBm	+20.0 dBm
2nd Order Intercept		+44.0 dBm
3rd Order Intercept		+35.0 dBm
Reverse Isolation	-17.0 dB	-19.0 dB
VSWR Input	2.0:1	1.8:1
VSWR Output	2.0:1	1.5:1
DC Voltage		15.0 V
DC Current		50.0 mA

Typical Performance

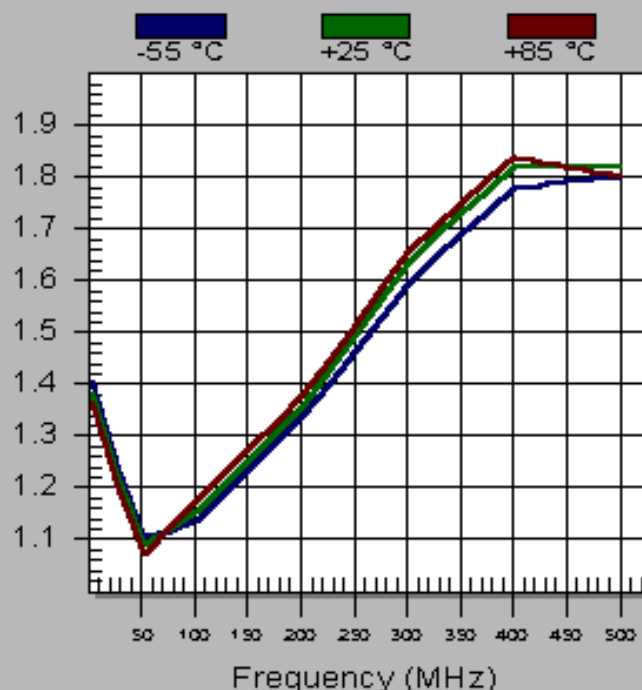
TM6147 Gain (dB)



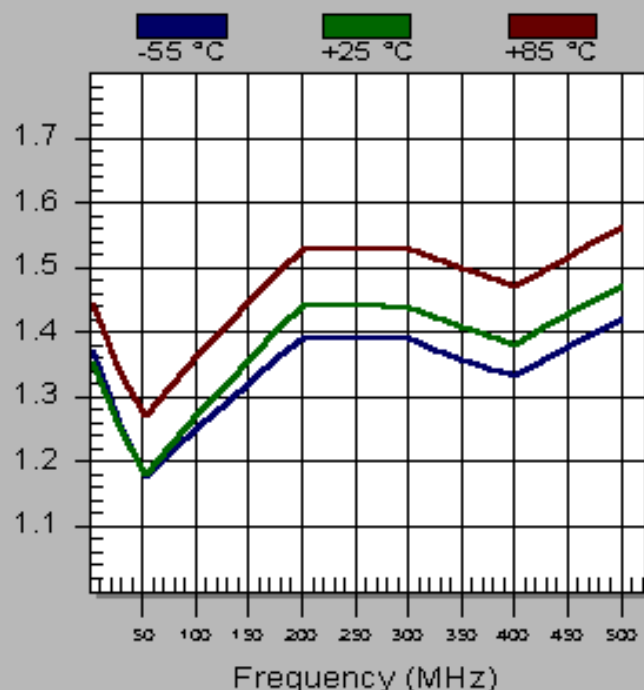
TM6147 Reverse Isolation (dB)

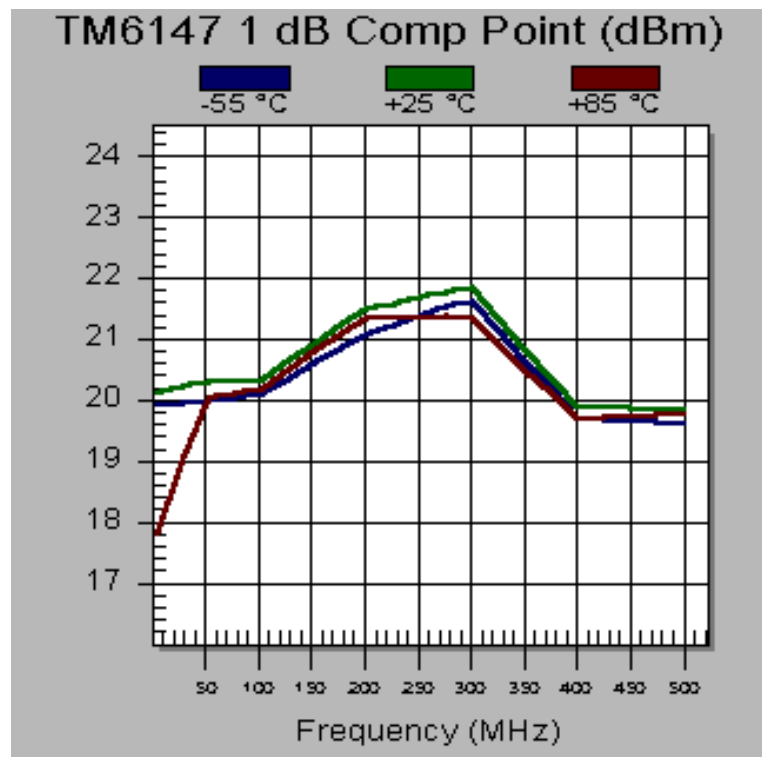
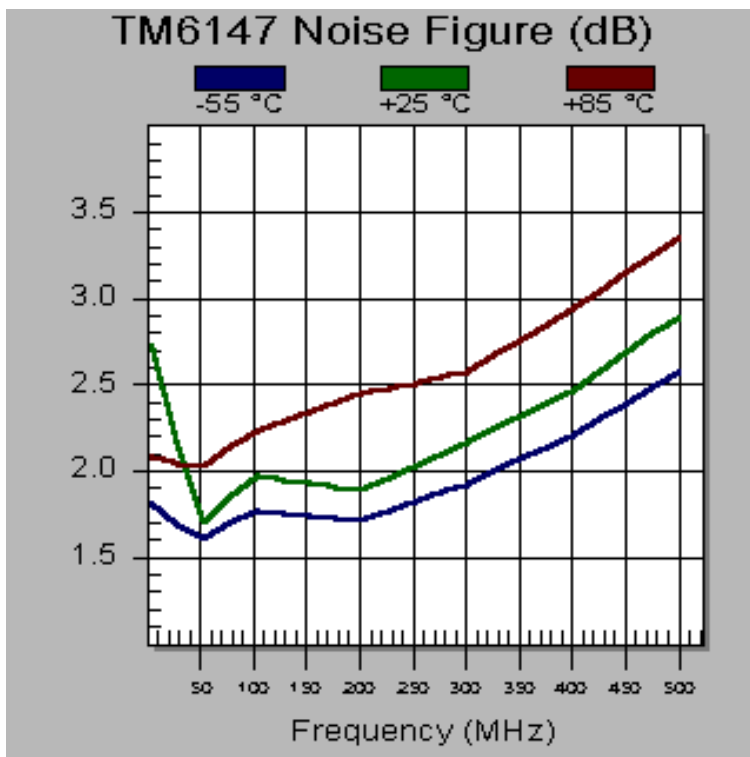


TM6147 Input VSWR



TM6147 Output VSWR





Packaging Options

S-Parameters

Frequency	S11		S21		S12		S22	
(MHz)	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
5	0.160	-76.0	6.84	-156.0	0.0900	-155.0	0.150	-33.0
50	0.040	-87.0	7.19	166.0	0.0900	163.0	0.080	20.0
100	0.070	-94.0	7.15	148.0	0.0900	145.0	0.120	23.0
200	0.150	-123.0	7.16	114.0	0.1000	106.0	0.180	3.0
300	0.240	-159.0	7.21	80.0	0.1100	75.0	0.180	-30.0
400	0.290	155.0	7.38	43.0	0.1100	41.0	0.160	-82.0
500	0.290	89.0	7.30	1.0	0.1100	5.0	0.190	-161.0

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