



Amplifier Datasheet

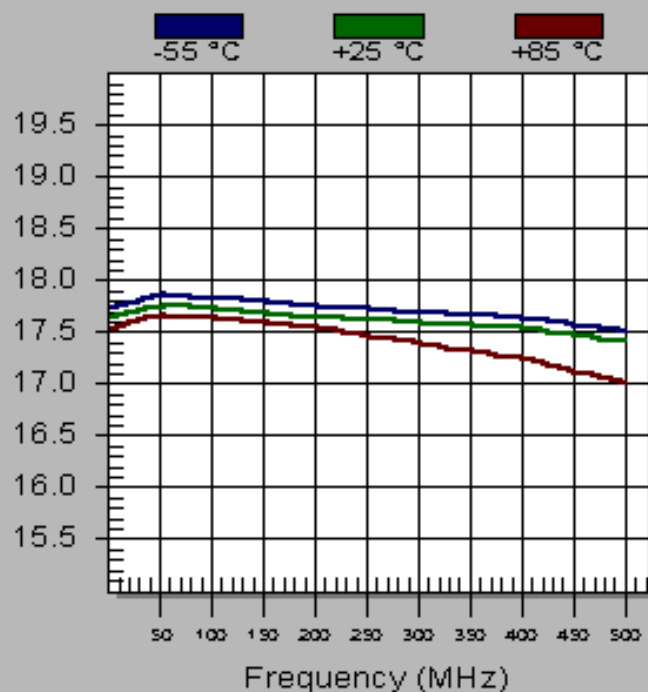
TM6513

Product Data Summary

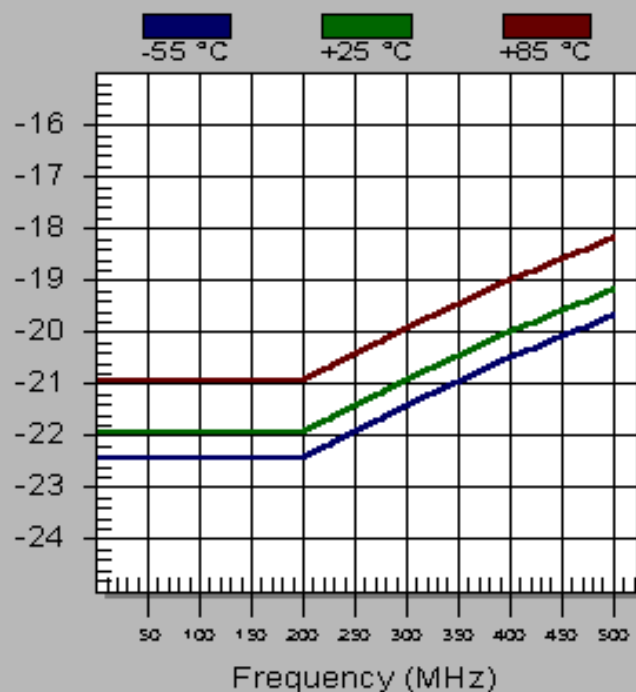
Parameter	Min/Max	Typical
Operating Frequency	5 - 500 MHz	
Noise Figure	5.0 dB	3.8 dB
Gain	15.5 dB	17.0 dB
Power Output (1 dB Compression)	+15.0 dBm	+16.5 dBm
2nd Order Intercept		+41.0 dBm
3rd Order Intercept		+29.0 dBm
Reverse Isolation	-18.0 dB	-19.0 dB
VSWR Input	2.0:1	1.5:1
VSWR Output	2.0:1	1.8:1
DC Voltage		24.0 V
DC Current		50.0 mA

Typical Performance

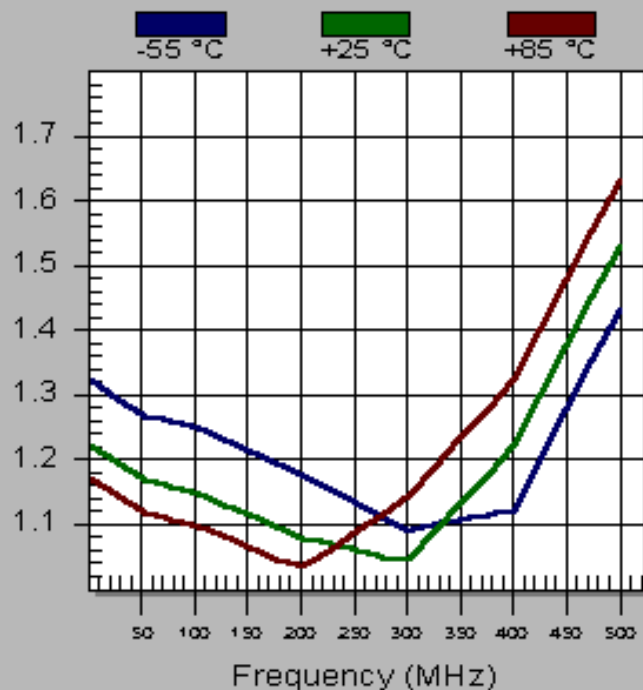
TM6513 Gain (dB)



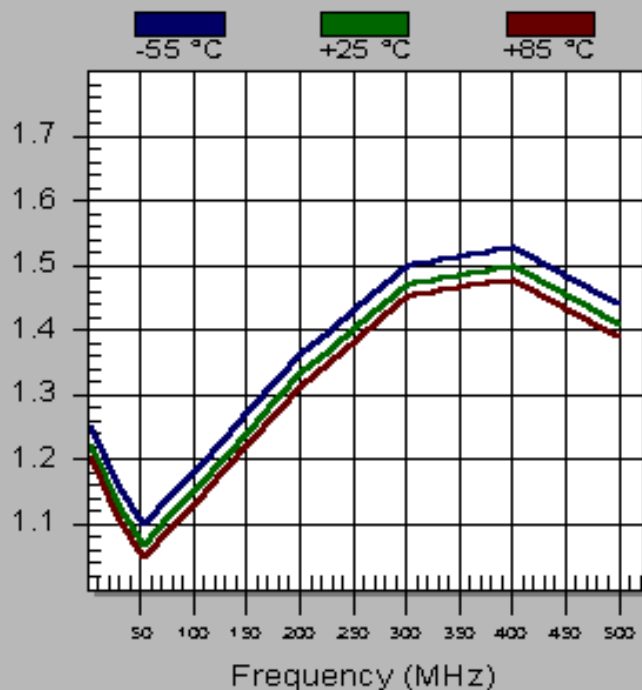
TM6513 Reverse Isolation (dB)

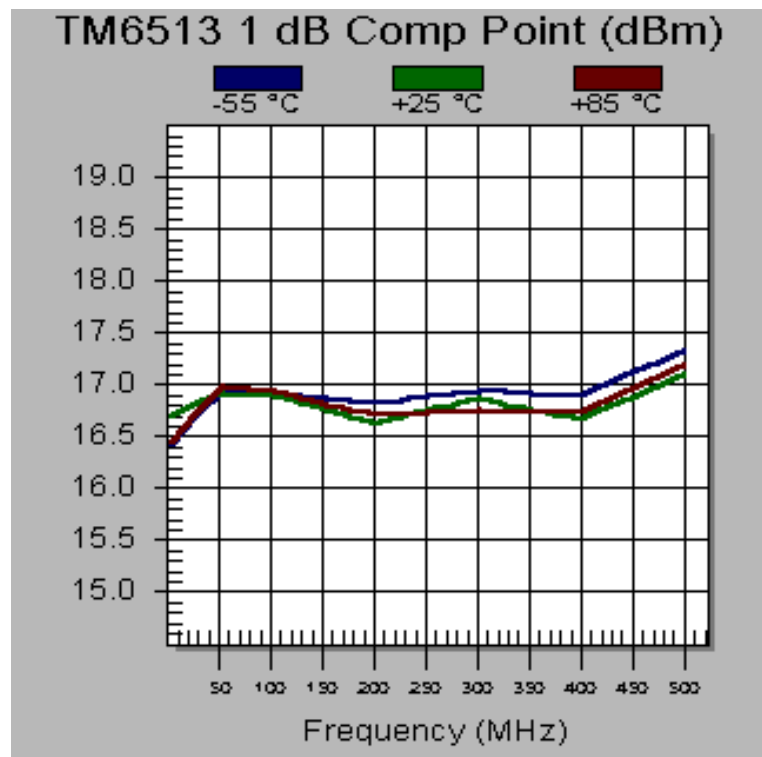
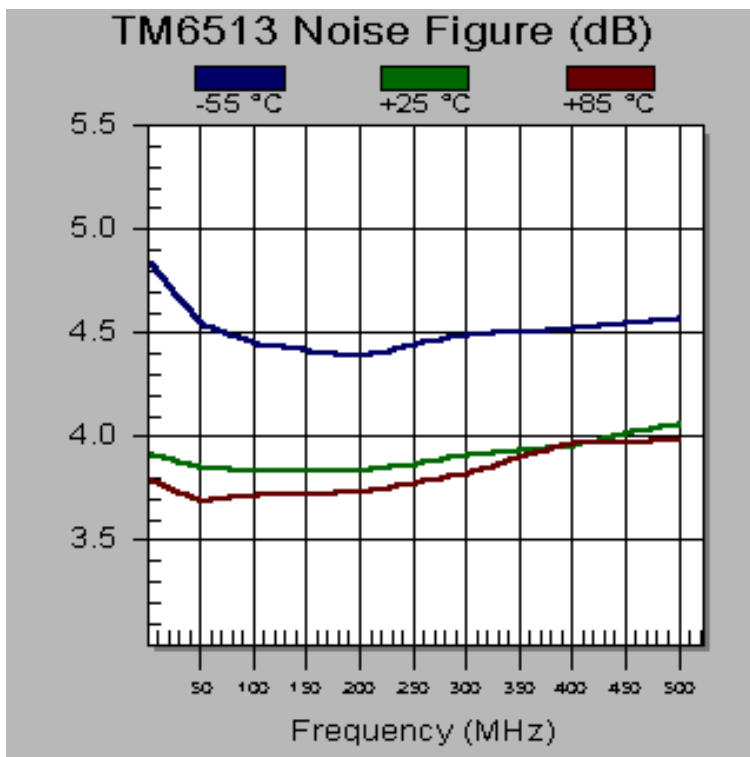


TM6513 Input VSWR



TM6513 Output VSWR





Packaging Options

S-Parameters

Frequency	S11		S21		S12		S22	
(MHz)	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
5	0.100	-126.0	7.62	-172.0	0.0800	10.0	0.100	113.0
50	0.080	178.0	7.74	169.0	0.0800	0.0	0.030	-98.0
100	0.070	166.0	7.71	156.0	0.0800	-3.0	0.070	-106.0
200	0.040	154.0	7.63	132.0	0.0800	-5.0	0.140	-126.0
300	0.020	-124.0	7.59	107.0	0.0900	-8.0	0.190	-150.0
400	0.100	-108.0	7.54	81.0	0.1000	-13.0	0.200	-178.0
500	0.210	-128.0	7.42	54.0	0.1100	-20.0	0.170	135.0

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