



Amplifier Datasheet

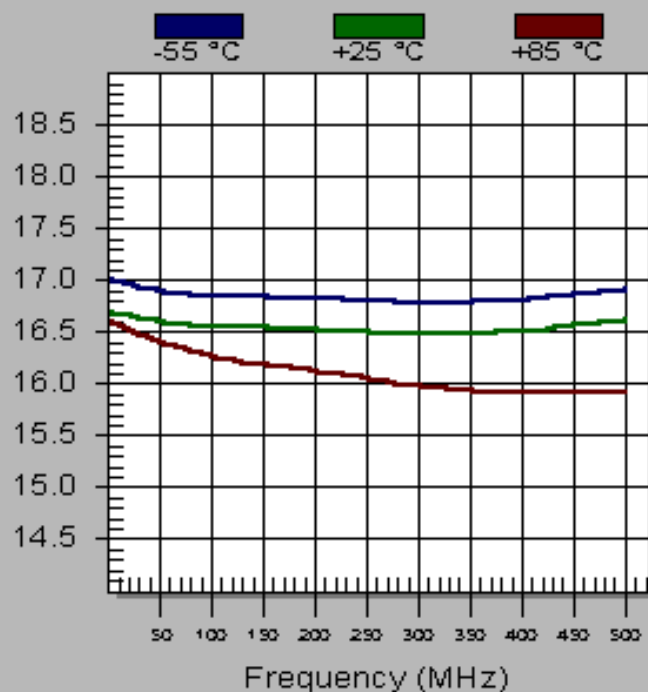
TM6503

Product Data Summary

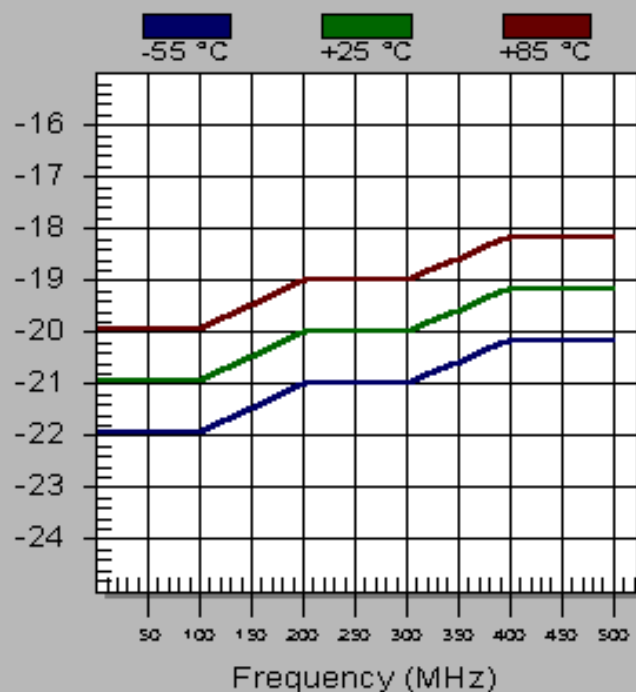
Parameter	Min/Max	Typical
Operating Frequency	5 - 500 MHz	
Noise Figure	4.5 dB	3.5 dB
Gain	15.5 dB	16.5 dB
Power Output (1 dB Compression)	0.0 dBm	+1.5 dBm
2nd Order Intercept		+16.0 dBm
3rd Order Intercept		+14.0 dBm
Reverse Isolation	-18.0 dB	-20.0 dB
VSWR Input	2.0:1	1.8:1
VSWR Output	2.0:1	1.5:1
DC Voltage		15.0 V
DC Current		10.0 mA

Typical Performance

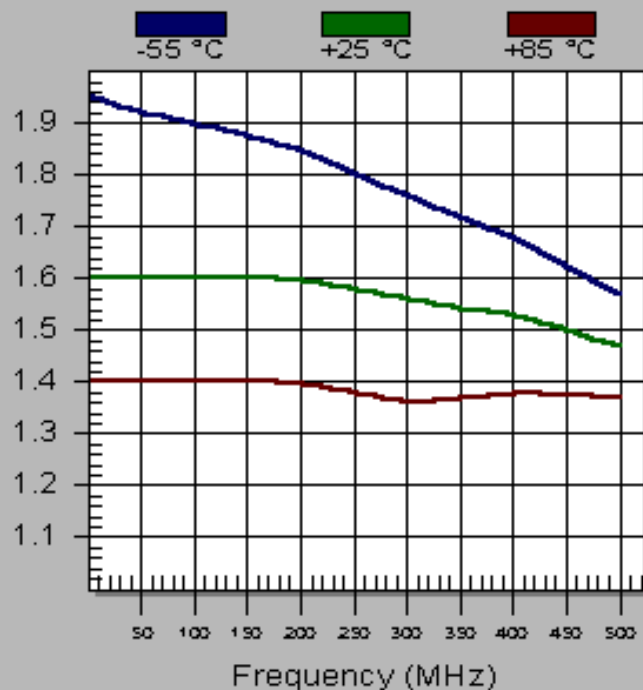
TM6503 Gain (dB)



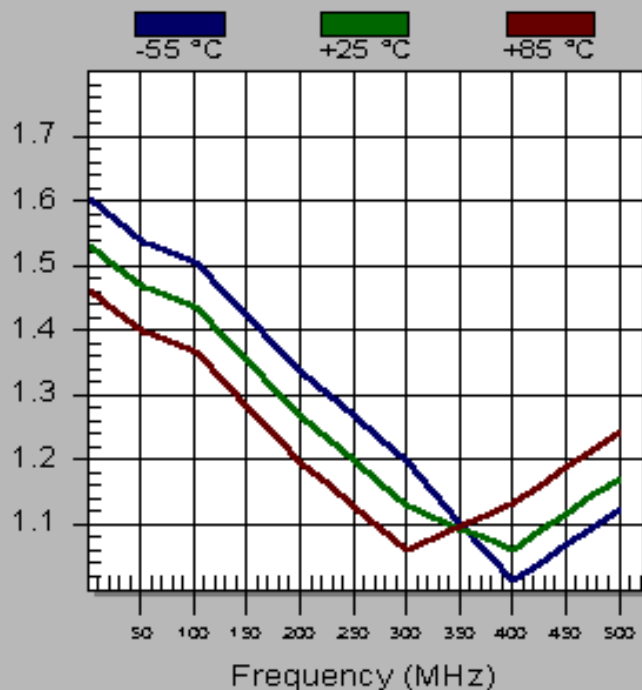
TM6503 Reverse Isolation (dB)

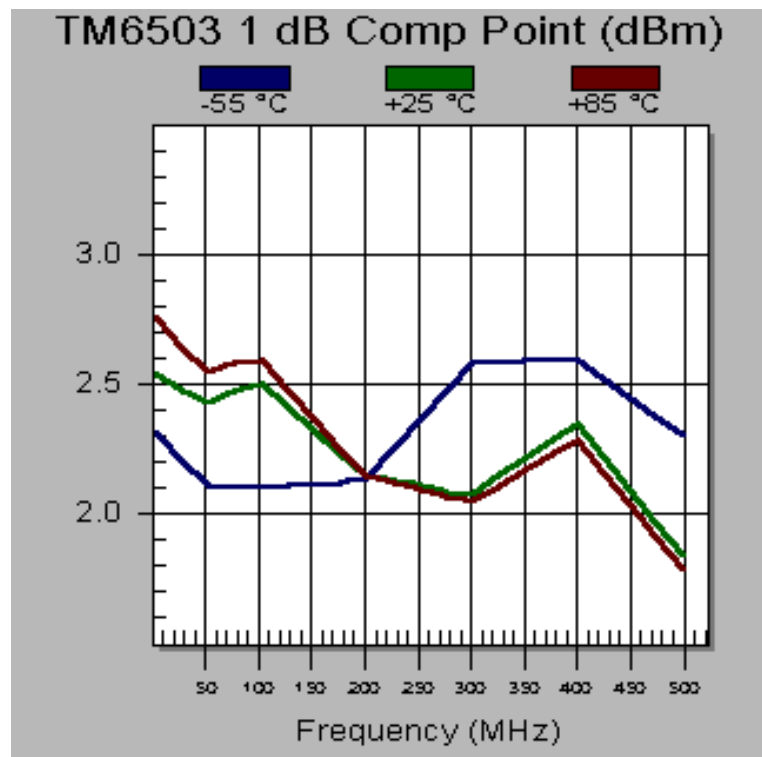
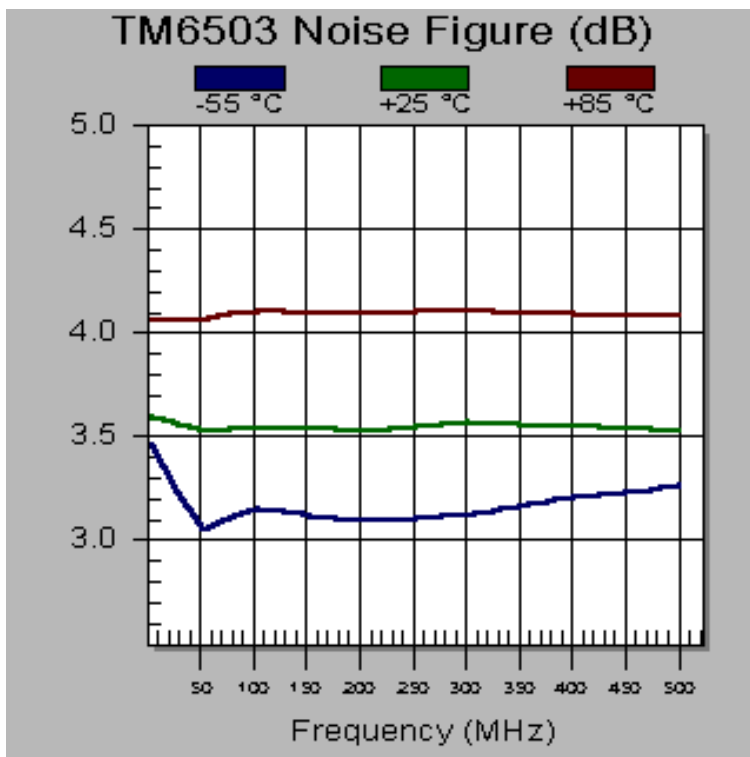


TM6503 Input VSWR



TM6503 Output VSWR





Packaging Options

S-Parameters

Frequency	S11		S21		S12		S22	
(MHz)	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
5	0.230	-177.0	6.84	-178.0	0.0900	4.0	0.210	-176.0
50	0.230	165.0	6.76	169.0	0.0900	-1.0	0.190	171.0
100	0.230	149.0	6.73	158.0	0.0900	-1.0	0.180	162.0
200	0.230	120.0	6.71	136.0	0.1000	-3.0	0.120	147.0
300	0.220	90.0	6.67	114.0	0.1000	-8.0	0.060	147.0
400	0.210	60.0	6.69	92.0	0.1100	-13.0	0.030	-118.0
500	0.190	24.0	6.78	59.0	0.1100	-19.0	0.080	-114.0

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