



Amplifier Datasheet

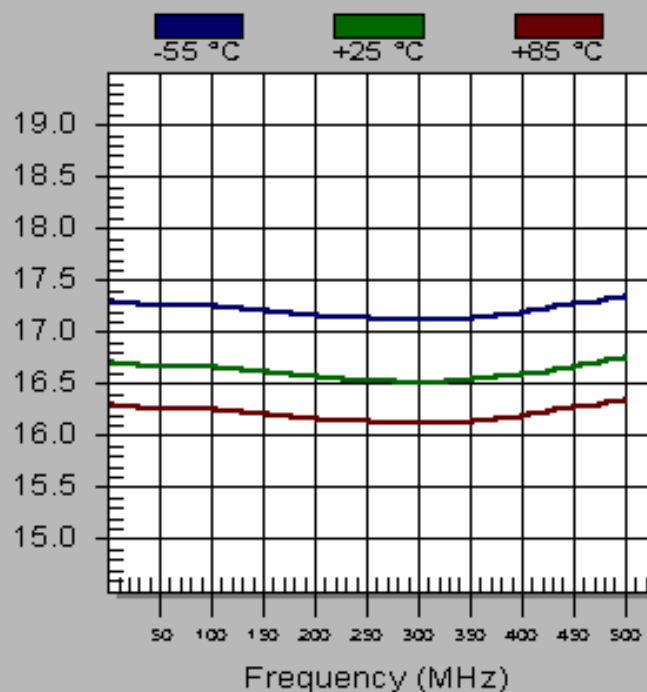
TM6511

Product Data Summary

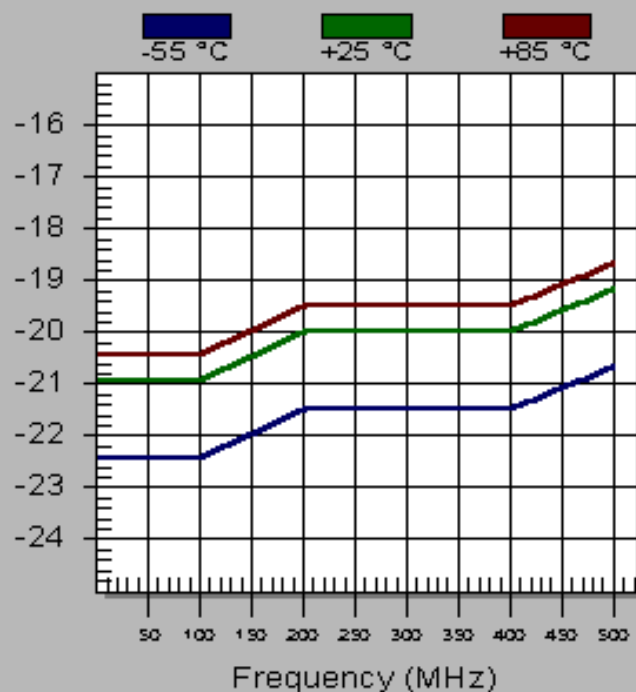
Parameter	Min/Max	Typical
Operating Frequency	5 - 500 MHz	
Noise Figure	3.0 dB	2.5 dB
Gain	15.5 dB	16.5 dB
Power Output (1 dB Compression)	+1.0 dBm	+2.0 dBm
2nd Order Intercept		+16.0 dBm
3rd Order Intercept		+14.0 dBm
Reverse Isolation	-18.0 dB	-20.0 dB
VSWR Input	2.0:1	1.5:1
VSWR Output	2.0:1	1.5:1
DC Voltage		15.0 V
DC Current		10.0 mA

Typical Performance

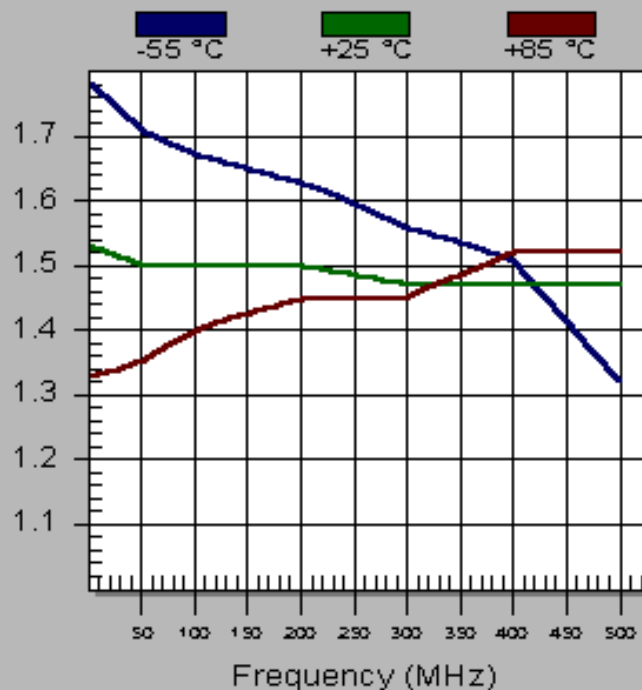
TM6511 Gain (dB)



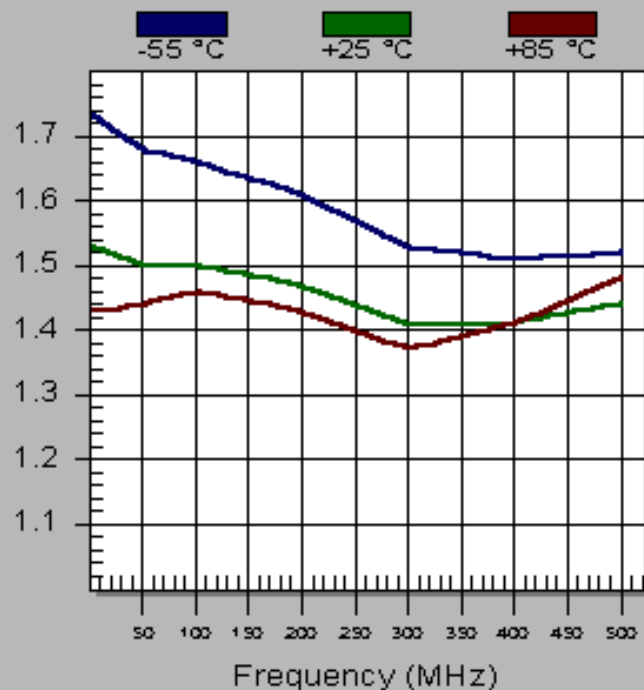
TM6511 Reverse Isolation (dB)

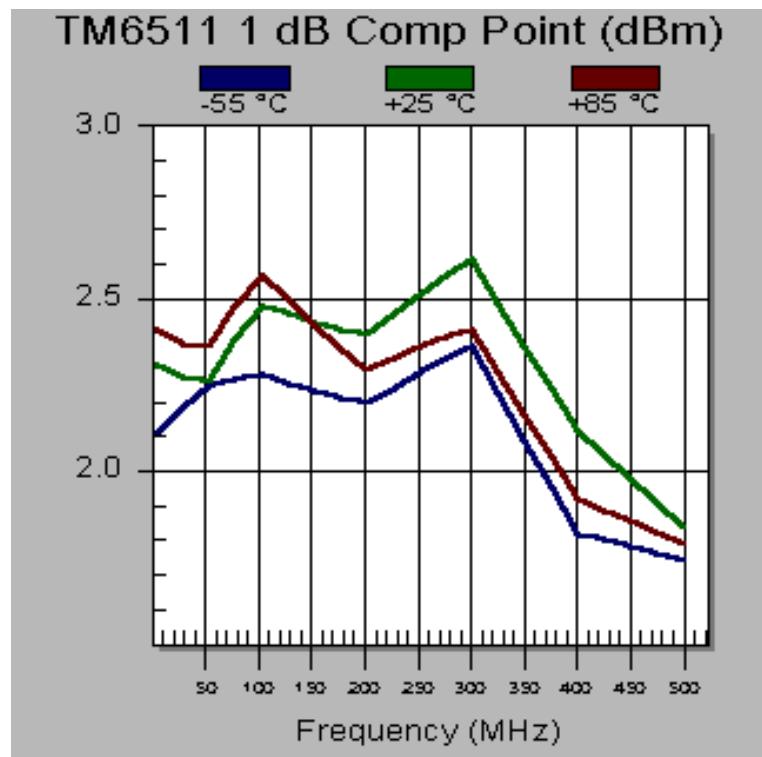
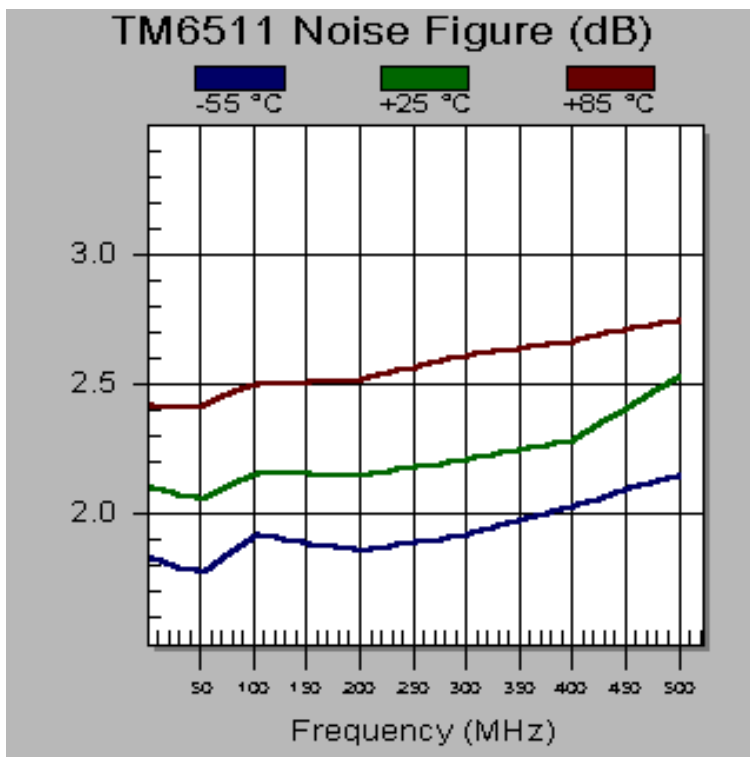


TM6511 Input VSWR



TM6511 Output VSWR





Packaging Options

S-Parameters

Frequency	S11		S21		S12		S22	
(MHz)	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
5	0.210	-175.0	6.85	-177.0	0.0900	5.0	0.210	-173.0
50	0.200	172.0	6.81	171.0	0.0900	1.0	0.200	171.0
100	0.200	163.0	6.81	161.0	0.0900	0.0	0.200	162.0
200	0.200	146.0	6.74	141.0	0.1000	-1.0	0.190	145.0
300	0.190	131.0	6.69	123.0	0.1000	-2.0	0.170	132.0
400	0.190	116.0	6.75	104.0	0.1000	-5.0	0.170	124.0
500	0.190	103.0	6.88	84.0	0.1100	-7.0	0.180	119.0

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