



Amplifier Datasheet

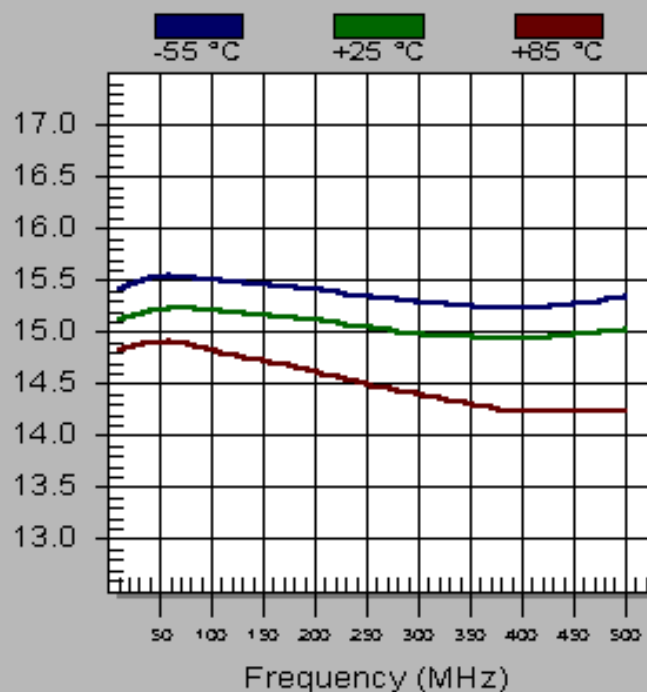
TM6507

Product Data Summary

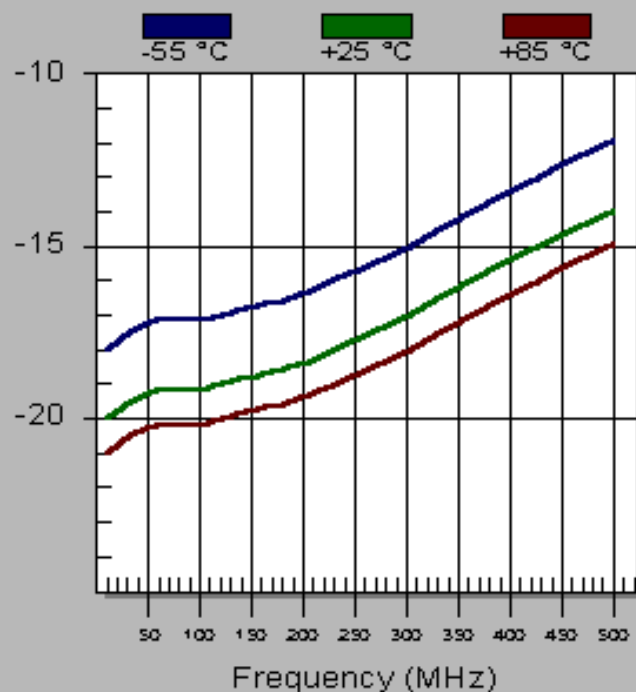
Parameter	Min/Max	Typical
Operating Frequency	10 - 500 MHz	
Noise Figure	6.0 dB	4.3 dB
Gain	14.0 dB	15.5 dB
Power Output (1 dB Compression)	+20.0 dBm	+23.0 dBm
2nd Order Intercept		+40.0 dBm
3rd Order Intercept		+35.0 dBm
Reverse Isolation	-13.0 dB	-14.0 dB
VSWR Input	2.0:1	1.5:1
VSWR Output	2.0:1	1.7:1
DC Voltage		15.0 V
DC Current		95.0 mA

Typical Performance

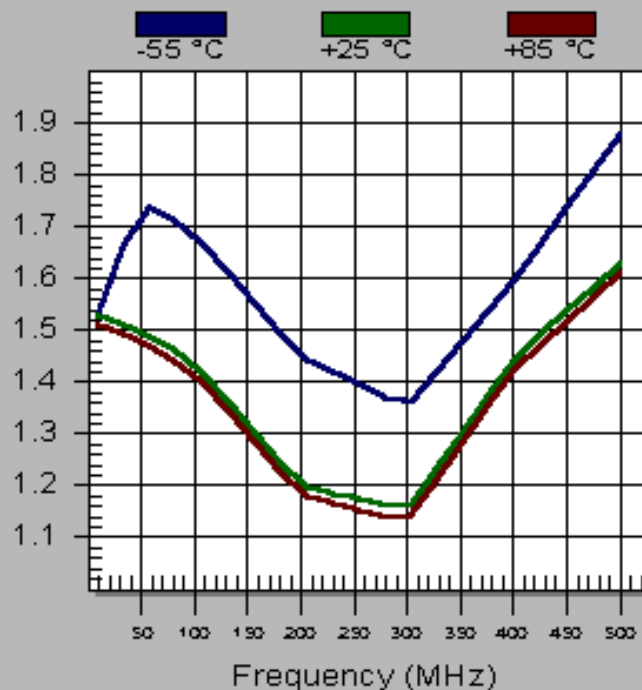
TM6507 Gain (dB)



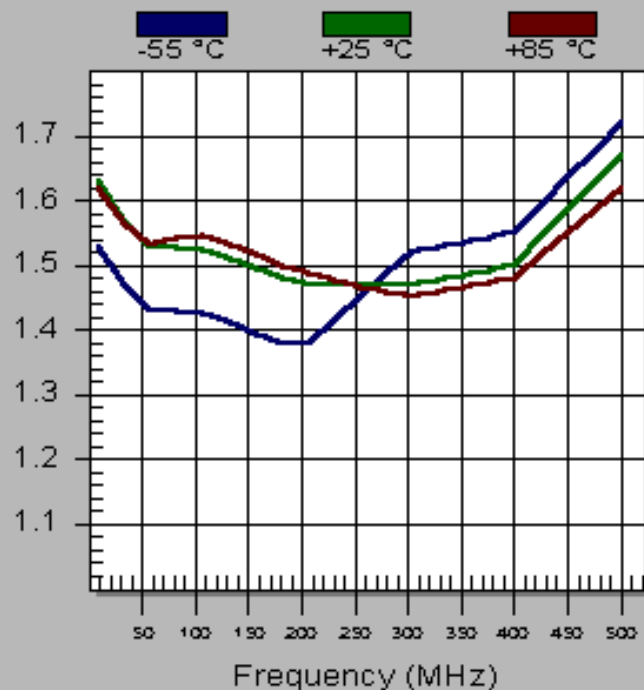
TM6507 Reverse Isolation (dB)



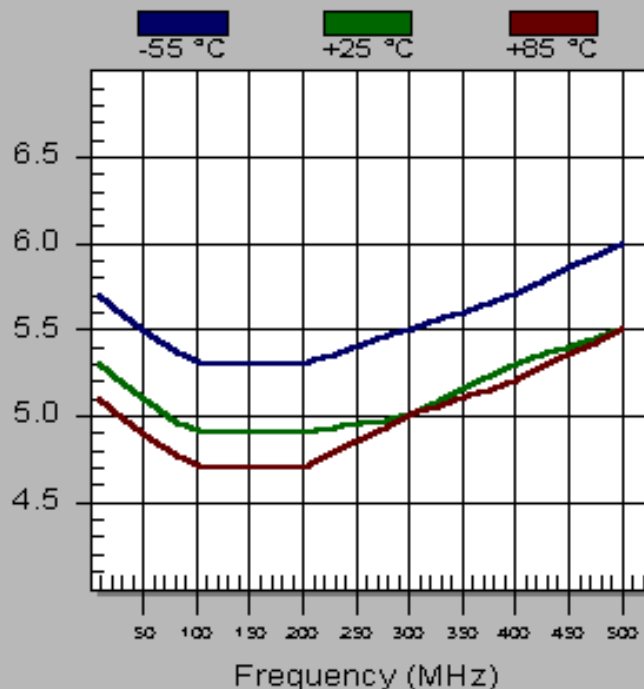
TM6507 Input VSWR



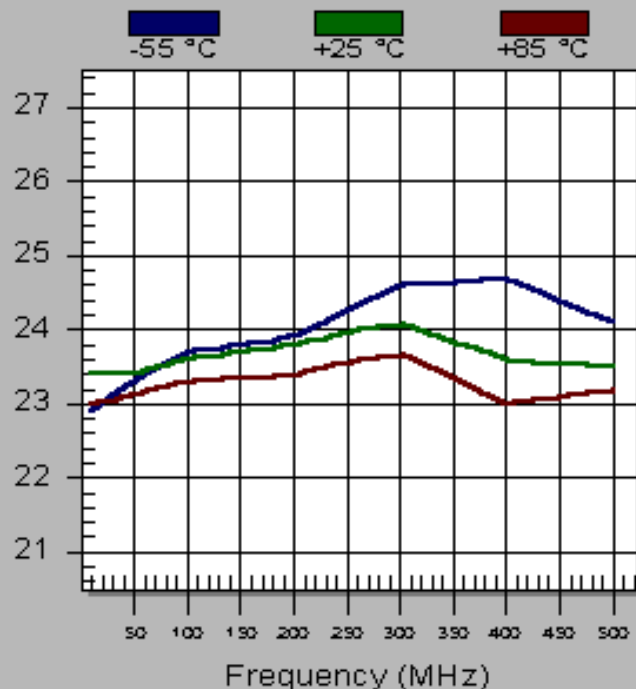
TM6507 Output VSWR



TM6507 Noise Figure (dB)



TM6507 1 dB Comp Point (dBm)



Packaging Options

S-Parameters

Frequency	S11		S21		S12		S22	
(MHz)	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
10	0.210	-165.0	5.70	-177.0	0.1000	6.0	0.240	172.0
50	0.200	167.0	5.79	165.0	0.1100	0.0	0.210	176.0
100	0.180	148.0	5.77	149.0	0.1100	-3.0	0.210	176.0
200	0.090	102.0	5.70	116.0	0.1200	-10.0	0.190	175.0
300	0.070	-47.0	5.62	83.0	0.1400	-21.0	0.190	174.0
400	0.180	-113.0	5.58	48.0	0.1700	-37.0	0.200	163.0
500	0.240	175.0	5.65	8.0	0.2000	-60.0	0.250	114.0

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