



Amplifier Datasheet

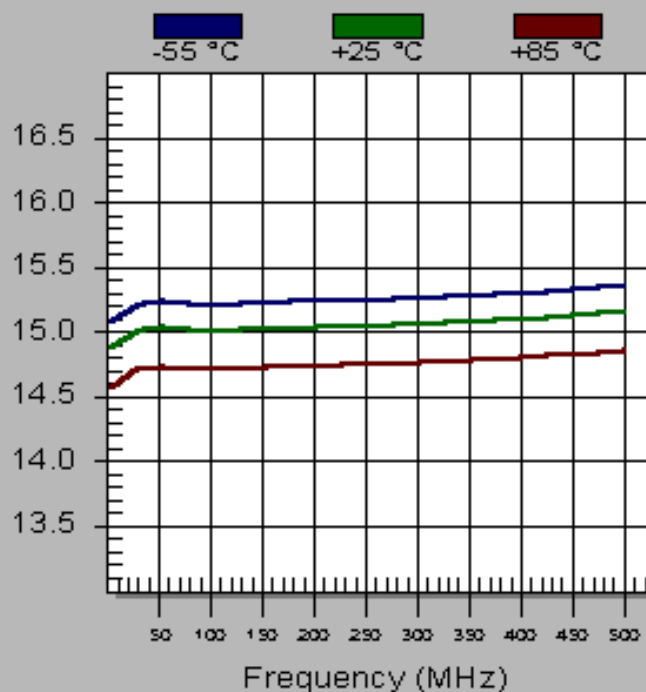
TM6416

Product Data Summary

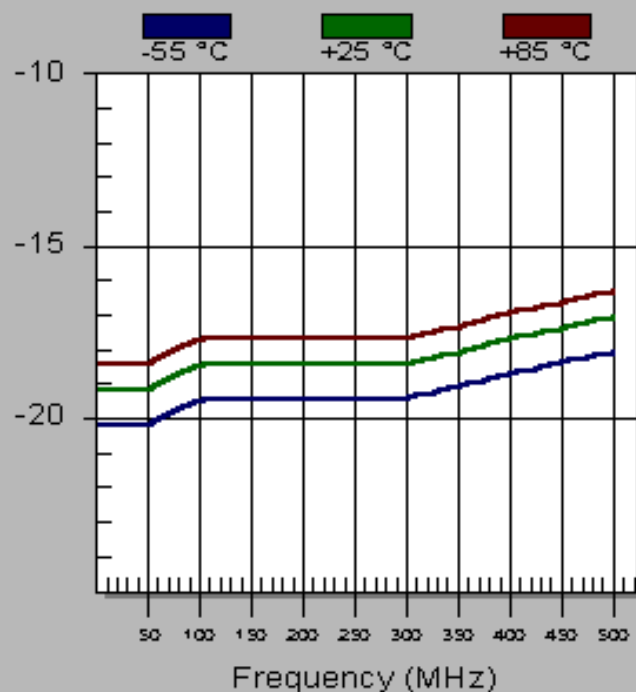
Parameter	Min/Max	Typical
Operating Frequency	5 - 500 MHz	
Noise Figure	4.5 dB	3.5 dB
Gain	14.0 dB	15.0 dB
Power Output (1 dB Compression)	+12.0 dBm	+13.5 dBm
2nd Order Intercept		+35.0 dBm
3rd Order Intercept		+27.0 dBm
Reverse Isolation	-17.0 dB	-17.5 dB
VSWR Input	2.0:1	1.3:1
VSWR Output	2.0:1	1.3:1
DC Voltage		15.0 V
DC Current		35.0 mA

Typical Performance

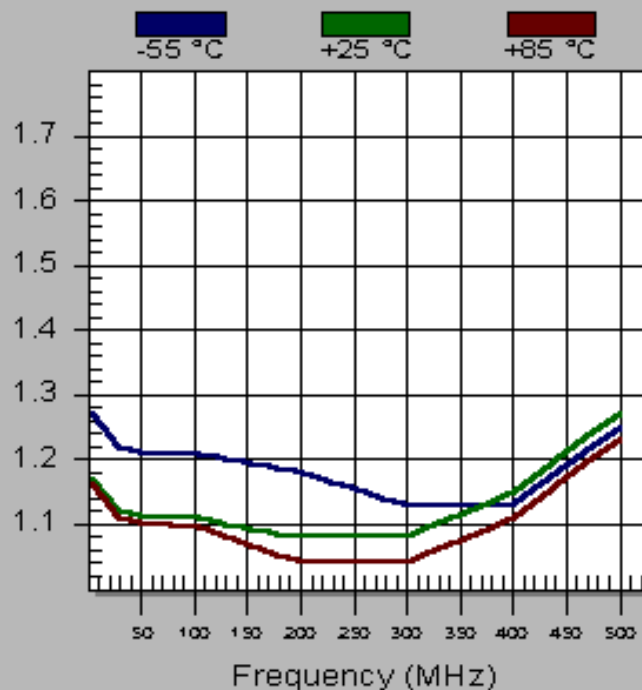
TM6416 Gain (dB)



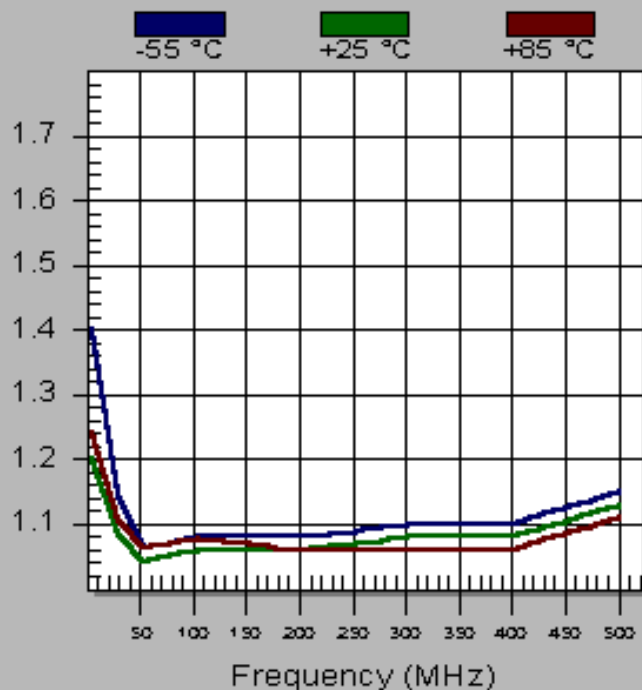
TM6416 Reverse Isolation (dB)

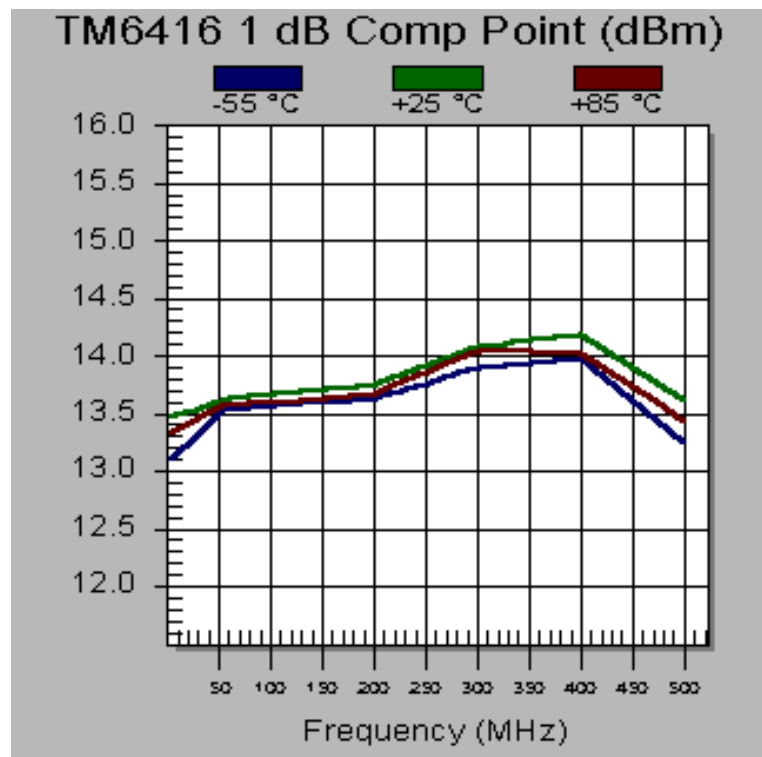
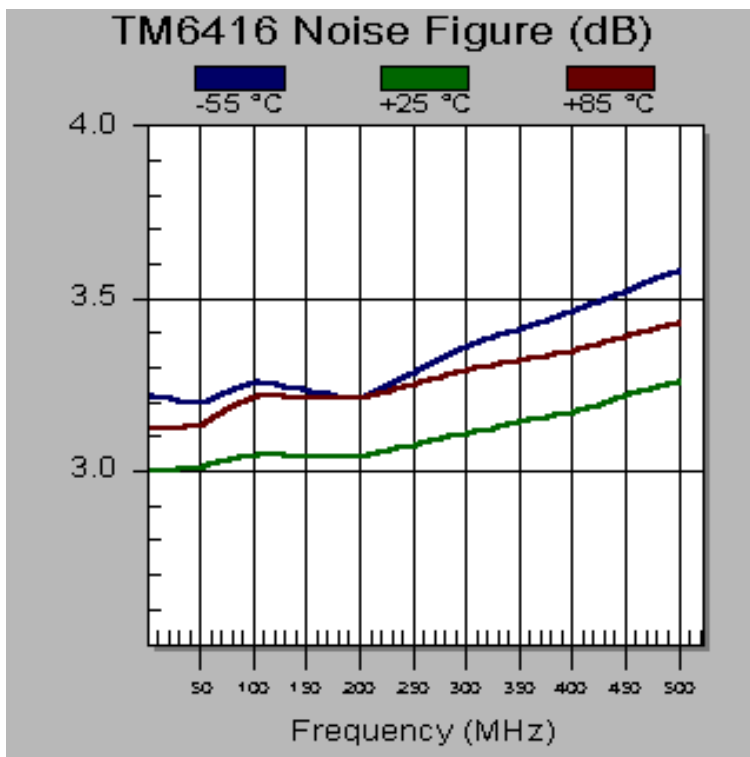


TM6416 Input VSWR



TM6416 Output VSWR





Packaging Options

S-Parameters

Frequency	S11		S21		S12		S22	
(MHz)	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
5	0.080	-118.0	5.54	-173.0	0.1100	9.0	0.090	129.0
10	0.060	-140.0	5.61	-177.0	0.1100	5.0	0.060	129.0
50	0.050	-173.0	5.65	173.0	0.1100	0.0	0.020	154.0
100	0.050	179.0	5.63	164.0	0.1200	-1.0	0.030	175.0
200	0.040	-176.0	5.65	147.0	0.1200	-3.0	0.030	177.0
300	0.040	-145.0	5.66	130.0	0.1200	-4.0	0.040	172.0
400	0.070	-128.0	5.69	113.0	0.1300	-8.0	0.040	145.0
500	0.120	-127.0	5.73	96.0	0.1400	-12.0	0.060	111.0

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