



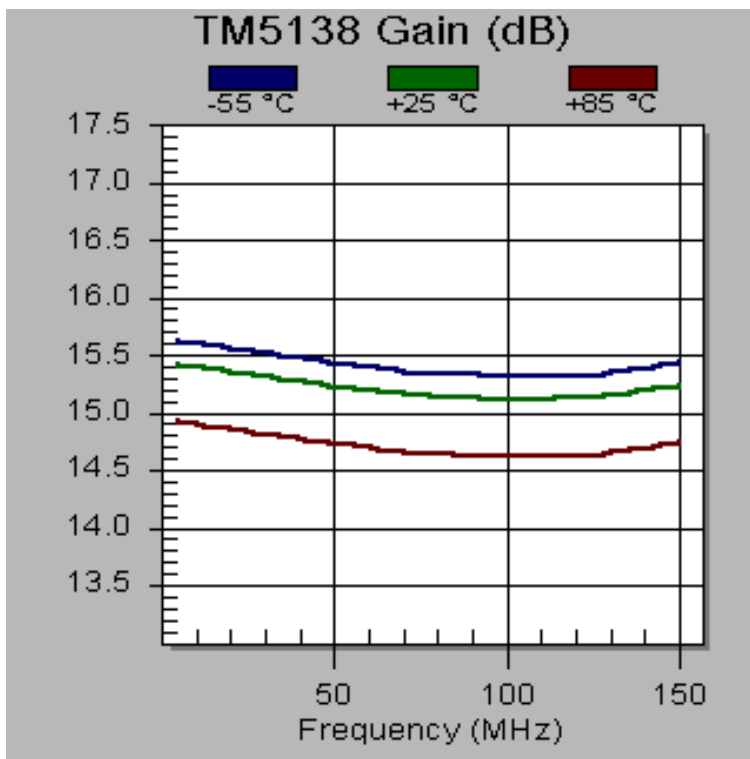
Amplifier Datasheet

TM5138

Product Data Summary

Parameter	Min/Max	Typical
Operating Frequency	5 - 150 MHz	
Noise Figure	3.5 dB	2.7 dB
Gain	14.0 dB	15.0 dB
Power Output (1 dB Compression)	+22.0 dBm	+24.5 dBm
2nd Order Intercept		+46.0 dBm
3rd Order Intercept		+38.0 dBm
Reverse Isolation	-19.0 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		88.0 mA

Typical Performance



Packaging Options

S-Parameters

Frequency	S11		S21		S12		S22	
(MHz)	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
5	0.220	-91.7	5.91	-162.6	0.0900	-169.6	0.130	-46.6
25	0.110	-116.2	5.85	168.0	0.1000	167.6	0.070	-98.1
50	0.150	-120.3	5.78	150.5	0.1000	150.7	0.090	-124.3
75	0.190	-124.5	5.72	134.8	0.0900	135.3	0.110	-146.3
100	0.230	-129.5	5.70	119.4	0.0900	120.5	0.120	-167.1
125	0.250	-134.9	5.71	104.2	0.0900	105.4	0.120	172.3
150	0.260	-140.0	5.78	88.6	0.0900	90.4	0.110	151.4

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