

Electrical Specifications: ^{2,3} T_A = -55°C to +85°C Case Temperature

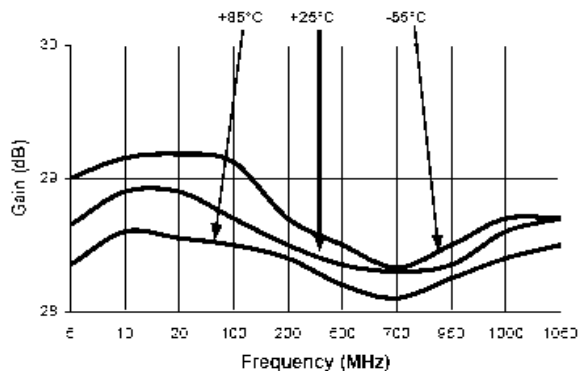
Parameter	Test Conditions	Frequency	Units	Min.	Typ.	Max.
Gain	@+25°C	300 MHz	dB	27.2	28.2	29.2
Frequency Response	—	5 - 1000 MHz	dB	—	—	±1.2
Gain Variation with Temperature	—	5 - 1000 MHz	dB	—	—	±1.2
1 dB Compression	Output Power	5 - 1000 MHz	dBm	+9	—	—
Noise Figure	—	5 - 1000 MHz	dB	—	—	4.5
Reverse Transmission	—	5 - 1000 MHz	dB	—	-36	-32
VSWR	—	5 - 1000 MHz	Ratio	—	—	2.0:1
Output IP ₂	Two-Tone inputs up to 0 dBm	5 - 1000 MHz	dBm	+28	—	—
Output IP ₃	Two-Tone inputs up to 0 dBm	5 - 1000 MHz	dBm	+18	—	—
V _{bias}	—	—	VDC	+14.5	+15.0	+15.5
I _{bias}	V _{bias} = +15.0 VDC	—	mA	—	44	50
Power Dissipation	@ +15 V Bias	—	mW	—	660	—

2. All specifications apply when operated at +15 VDC, with 50 ohms source and load impedance.

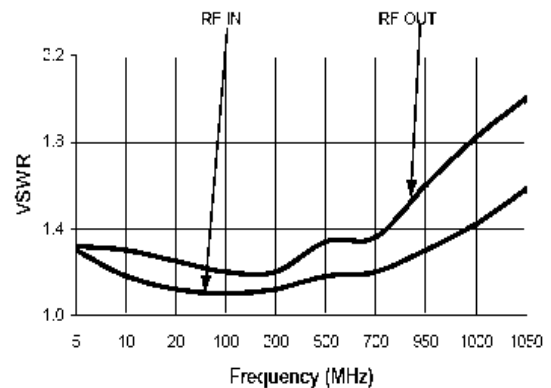
3. Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 800 mW must be provided in use.

Typical Performance Curves

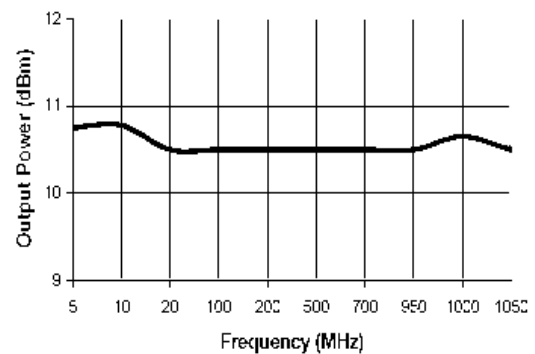
Gain vs. Frequency



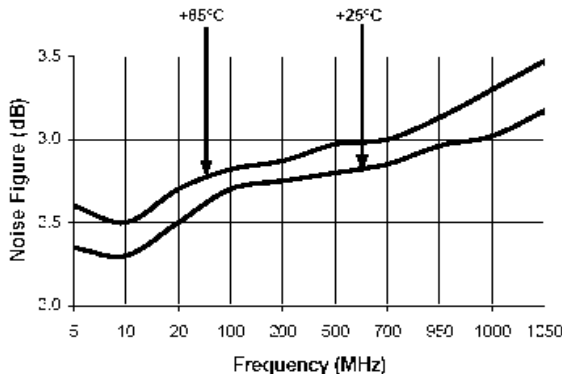
VSWR vs. Frequency



1 dB Compression



Noise Figure



Intermodulation Intercept

