RF AMPLIFIER
MODEL *TM3008*

Available as: TM3008, 4 Pin TO-8 (T4)
TN3008, 4 Pin Surface Mount (SM3)
FP3008, 4 Pin Flatpack (FP4)
BX3008, Connectorized Housing (H1)

Features

- Low Noise Figure: <2 dB Typical
- Medium Gain: 17 dB Typical
- Operating Temp. -20 ºC to + 85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -20 ºC to +85 ºC
Frequency	30-100 MHz	30-100 MHz
Gain (dB)	17	16.5 Min.
Power @ 1 dB Comp. (dBm)	+16	+15.5 Min.
Reverse Isolation (dB)	-20	-19 Max.
VSWR In Out	<1.5:1 <1.5:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	<2.0	2.5 Max.
Power Vdc mA	+12 37.5	+12 40 Max.

Note: Care should always be taken to effectively ground the case of each unit.

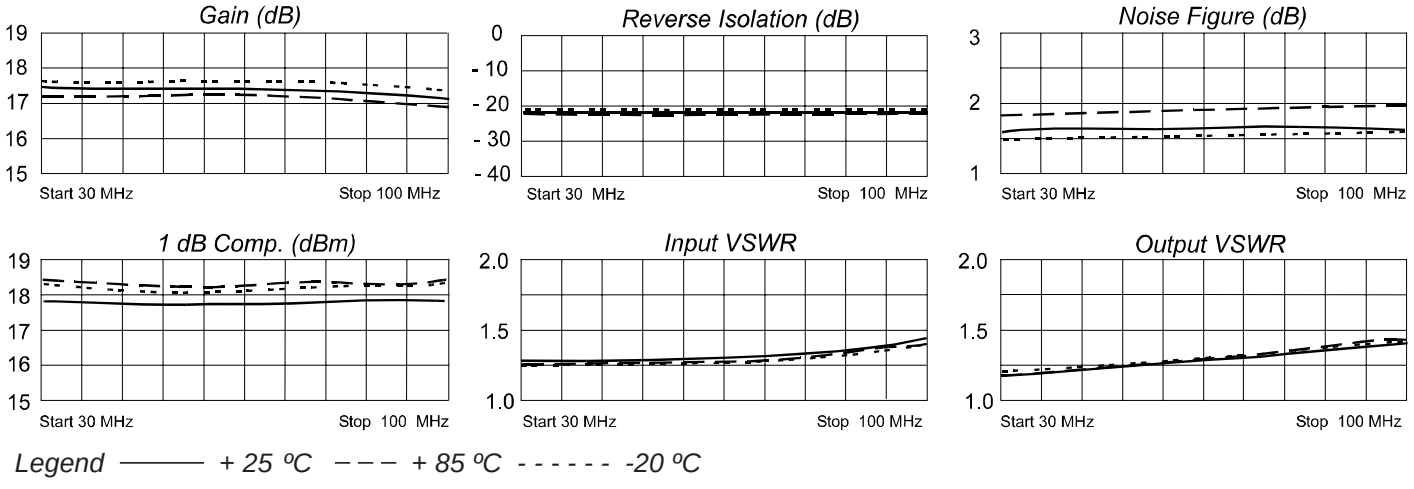
Typical Intermodulation Performance at 25 ºC

Second Order Harmonic Intercept Point ..... +45 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +40 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +32 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to +100 ºC
Storage Temperature ..... -62ºC to +125 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +15 Volts
Continuous RF Input Power ..... +13 dBm
Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— + 25 ºC – – – + 85 ºC - - - - - - -20 ºC

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Rev.
2/7/08