

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 °C to + 85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -20 °C to +85 °C
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	<1.5:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise Figure (dB)	<2.0	2.5 Max.
Power Vdc	+12	+12
mA	37.5	40 Max.

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

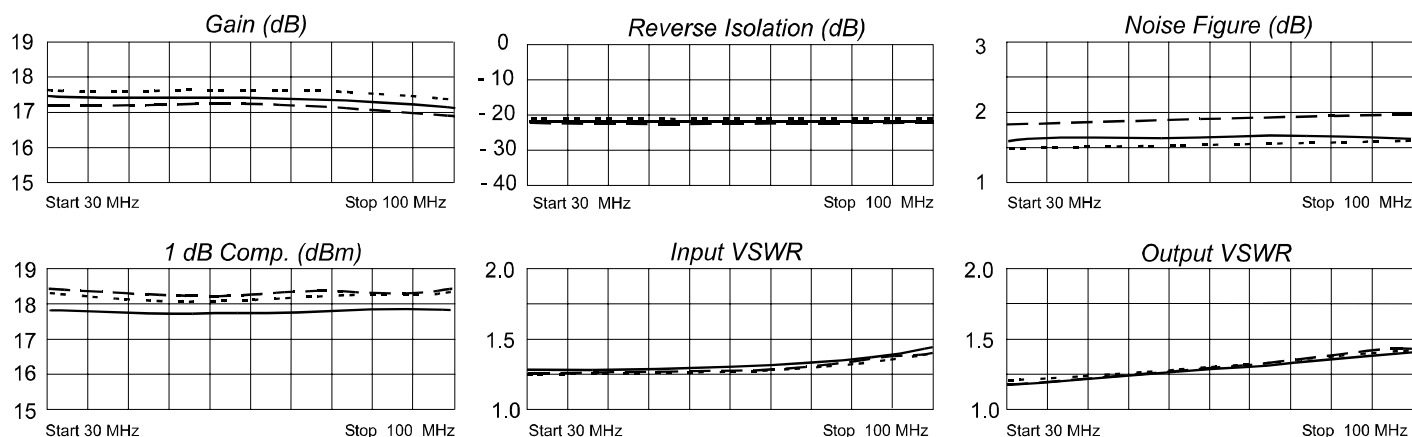
Typical Intermodulation Performance at 25 °C

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 -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 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 °C - - - + 85 °C -20 °C