

# 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.

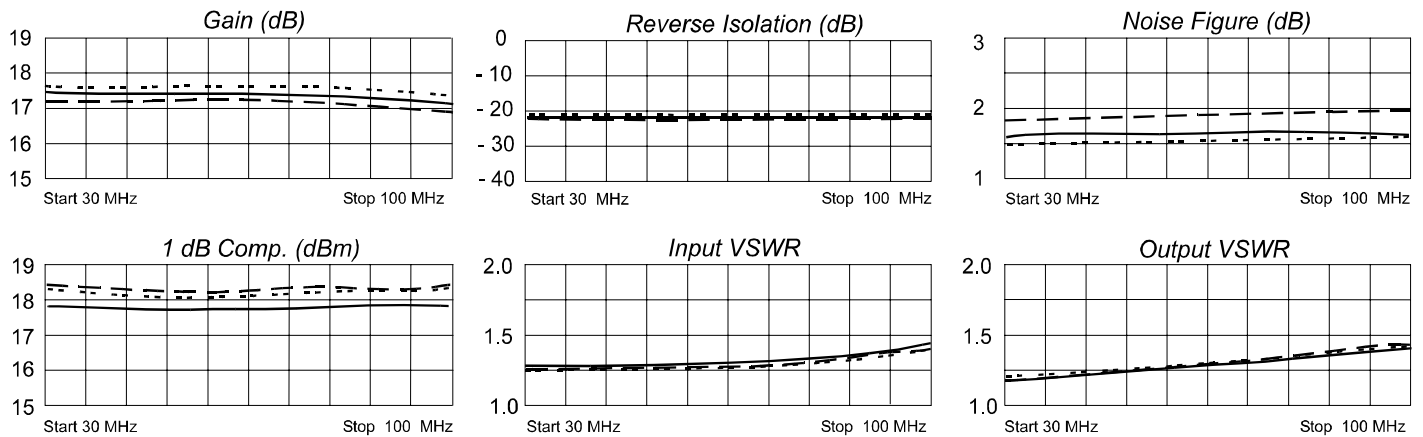
### Typical Intermodulation Performance at 25 °C

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



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