

# RF AMPLIFIER

## MODEL *TM3017*

Available as: TM3017, 4 Pin TO-8 (T4)  
 TN3017, 4 Pin Surface Mount (SM3)  
 FP3017, 4 Pin Flatpack (FP4)  
 BX3017, Connectorized Housing (H1)

### Features

- 10 Volt Operation
- Low Noise Figure: <2.0 dB Typical
- Operating Temp. 0 °C to + 65 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +65 °C
Frequency	7 - 250 MHz	7 - 250 MHz
Gain (dB)	15.0	14 Min.
Power @ 1 dB Comp. (dBm)	+12.5	+11.0 Min.
Reverse Isolation (dB)	-19.5	-18 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	<2.0	3.0 Max.
Power Vdc	+10	+10
mA	20	25 Max.

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

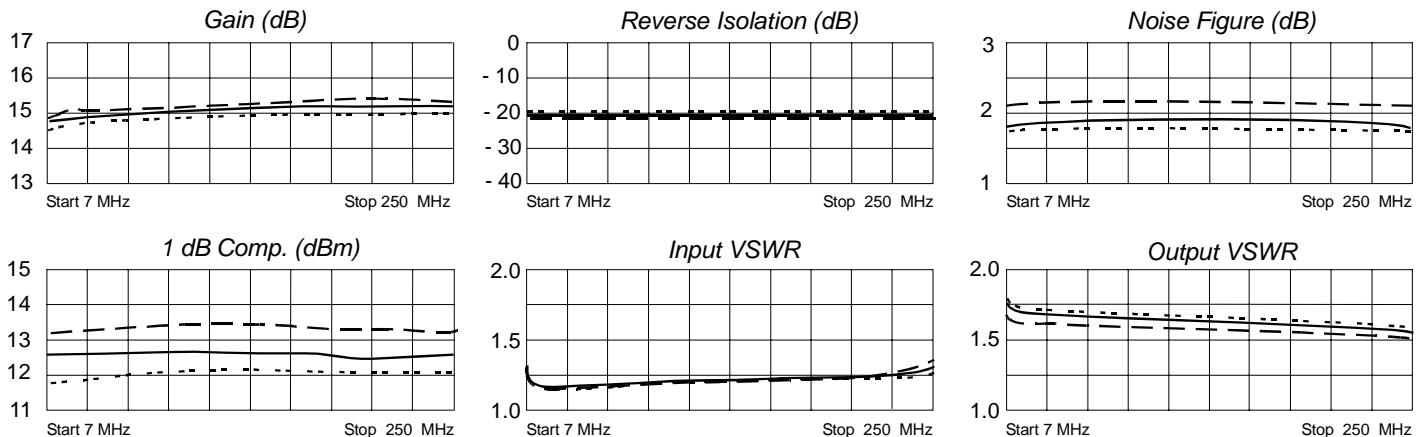
### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point ..... +40 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +34 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +25 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 ..... + 13 Volts  
 Continuous RF Input Power ..... + 13 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.2 Watt (3 µsec Max.)

### Typical Performance Data



Legend ——— + 25 °C - - - - + 65 °C ······ 0 °C



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