

# RF AMPLIFIER

## MODEL *TM3007*

Available as: TM3007, 4 Pin TO-8 (T4)  
 TN3007, 4 Pin Surface Mount (SM3)  
 FP3007, 4 Pin Flatpack (FP4)  
 BX3007, Connectorized Housing (H1)

### Features

- Low Noise Figure: <2.7 dB Typical
- Output Power: +14 dBm Typical
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening Available

### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point ..... +40 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +36 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +26 dBm (Typ.)

### Specifications

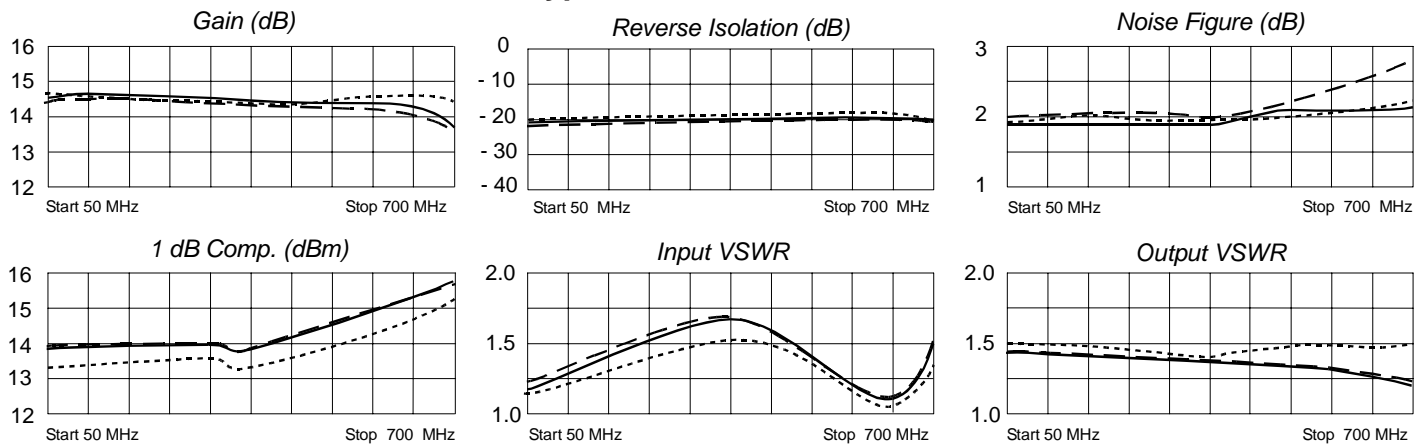
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	50 - 700 MHz	50 - 700 MHz
Gain (dB)	14.5	13 Min.
Power @ 1 dB Comp. (dBm)	+14	+13 Min.
Reverse Isolation (dB)	-19.5	-18 Max.
VSWR In	<1.75:1	2:0:1 Max.
Out	<1.5:1	2:0:1 Max.
Noise Figure (dB)	<2.7	3.0 Max.
Power Vdc	+15	+15
mA	27	30 Max.

### Maximum Ratings

Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -62°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... + 18 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.)

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

### Typical Performance Data



Legend ——— + 25 °C    - - - - + 85 °C    ······ -55 °C



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