

# RF AMPLIFIER

## MODEL *TM3015*

Available as: TM3015, 4 Pin TO-8 (T4)  
 TN3015, 4 Pin Surface Mount (SM3)  
 FP3015, 4 Pin Flatpack (FP4)  
 BX3015, Connectorized Housing (H1)

### Features

- High Gain: 20.5 dB Typical
- Medium Output Power: +13 dBm Typical
- Operating Temp. -55 °C to + 85 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 2000 MHz	10 - 2000 MHz
Gain (dB)	20.5	18.0 Min.
Power @ 1 dB Comp. (dBm)	+13	+12.5 Min.
Reverse Isolation (dB)	-30	-29 Max.
VSWR In	<2.0:1	2.25:1 Max.
Out	<2.25:1	2.5:1 Max.
Noise Figure (dB)	<6.0	6.5 Max.
Power Vdc	+15	+15
mA	68	72 Max.

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

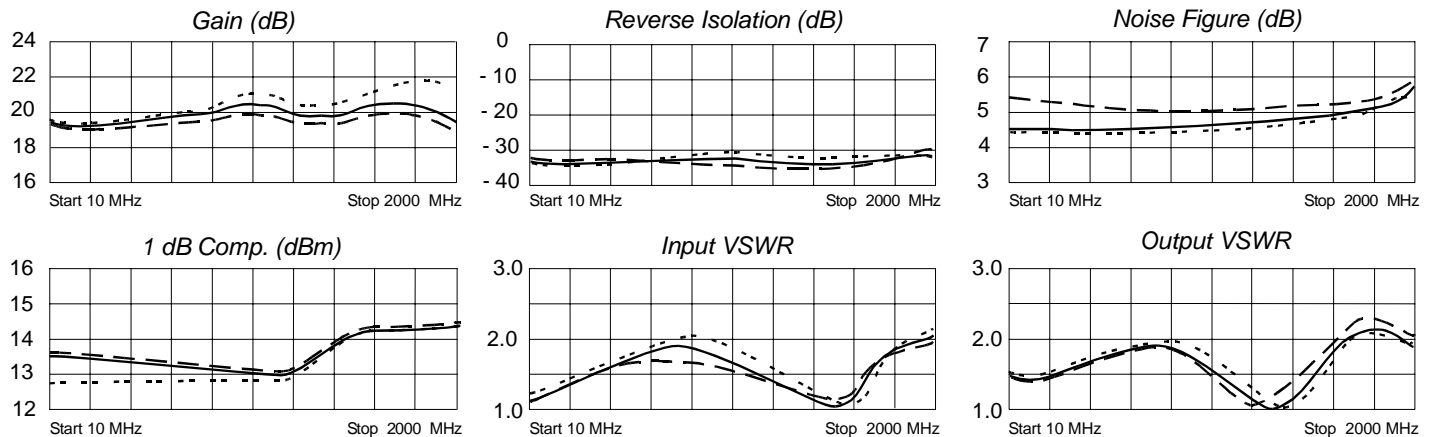
### Typical Intermodulation Performance at 25 ° C

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

### Typical Performance Data



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



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