

# RF AMPLIFIER

## MODEL *TM3034*

Available as: TM3034, 4 Pin TO-8 (T4)  
 TN3034, 4 Pin Surface Mount (SM3)  
 BX3034, Connectorized Housing (H1)

### Features

- Low Noise: 2.5 dB Typical
- Environmental Screening Available

### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point.....+49 dBm (Typ.)  
 Second Order Two Tone Intercept Point.....+43 dBm (Typ.)  
 Third Order Two Tone Intercept Point.....+30 dBm (Typ.)

### Specifications

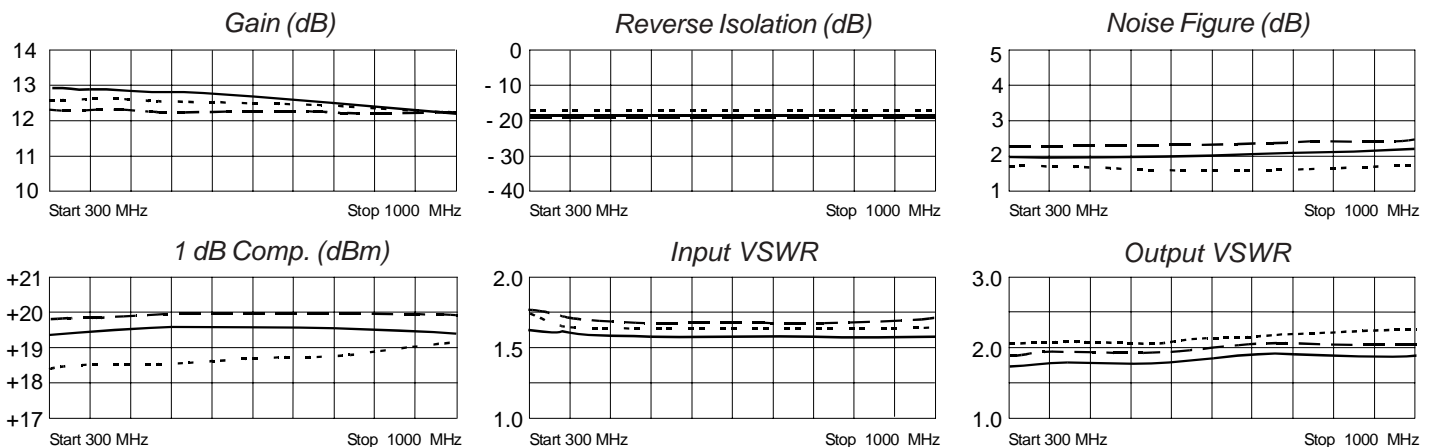
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	300-1000 MHz	300-1000 MHz
Gain (dB)	12.5	11.5 Min.
Power @ 1 dB Comp. (dBm)	19.5	18.0 Min
Reverse Isolation (dB)	-19	-18 Max
VSWR In	1.75:1	2.0:1 Max.
Out	2.0:1	3.0:1 Max.
Noise Figure (dB)	2.5	4.0 Max.
Power Vdc	15	15 Min.
mA	56	60 Max.

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

### 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..... 0.2 Watt(3 μsec Max.)

### Typical Performance Data



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



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