

# RF AMPLIFIER

## MODEL *TM3072*

Available as: TM3072, 4 Pin TO-8 (T4)  
 TN3072, 4 Pin Surface Mount (SM3)  
 FP3072, 4 Pin Flatpack (FP4)  
 BX3072, Connectorized Housing (H1)

### Features

- High Output Power: 27.5 dBm Typical
- Low Phase Bipolar Design
- 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 - 300 MHz	10 - 300 MHz
Gain (dB)	13.5	13 Min.
Power @ 1 dB Comp. (dBm)	+27.5	+27 Min.
Reverse Isolation (dB)	-17	-16 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	5	6 Max.
Power Vdc	+15	+15
mA	180	185 Max.

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

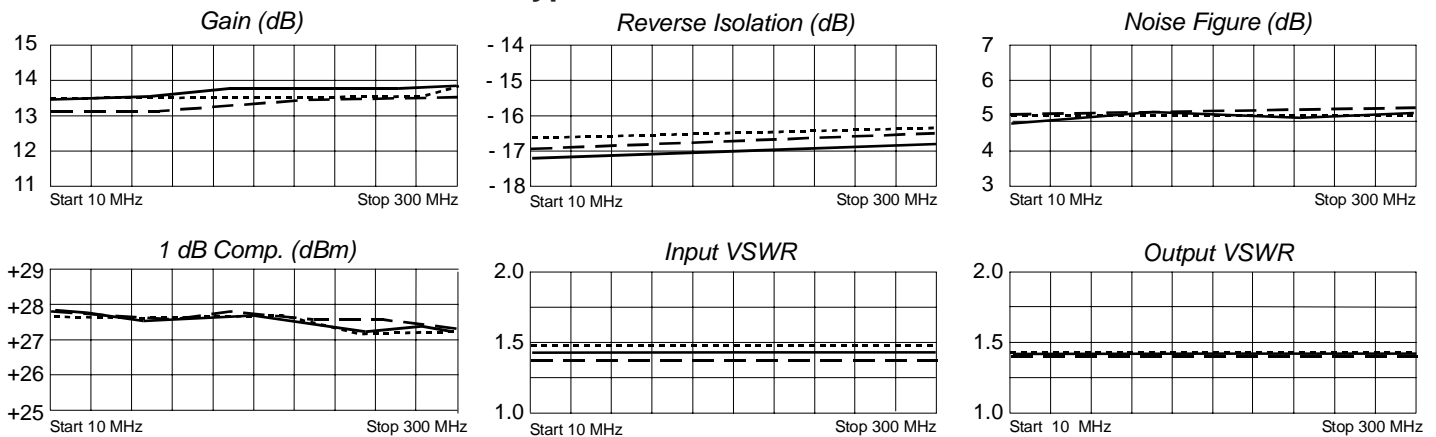
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point ..... +65 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +60 dBm (Typ.)  
 Third Order Two Tone Intercept Poin ..... +44 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 ..... +17 Volts  
 Continuous RF Input Power ..... +15 dBm  
 Short Term RF Input Power .... 100 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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