

# RF AMPLIFIER

## MODEL *TRMP1039*

Available as: TRMP1039, 4 Pin TO-8B (T8)  
 RNMP1039, 4 Pin Surface Mount (SM19)  
 BRMP1039, Connectorized Housing (H2)

### Features

- High Second Order Two Tone Intercept: +55 dBm
- High Third Order Two Tone Intercept: +42 dBm
- 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 (MHz)	500 - 3000 MHz	500 - 3000 MHz
Gain (dB)	12	11 Min.
Power @ 1 dB Comp. (dBm)	+26.5	+24.5 Min.
Reverse Isolation (dB)	-25	-20 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	3.5	4.5 Max.
Power Vdc	+15	+15 Min.
mA	180	200 Max.

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

### Typical Intermodulation Performance at 25 °C

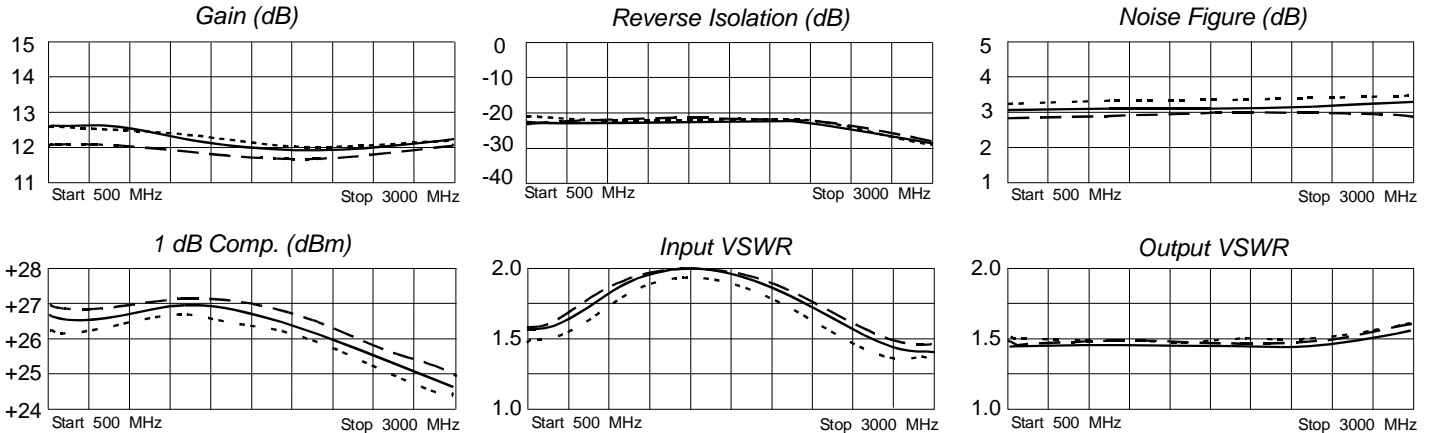
Second Order Harmonic Intercept Point ..... +60 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +55 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +42 dBm (Typ.)

### Maximum Ratings

Ambient Operating Temperature ..... -55°C to +90 °C  
 Storage Temperature ..... -62°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +15 Volts  
 Continuous RF Input Power ..... +17 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

Revision 10-27-2014

### Typical Performance Data



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



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