

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: +65 dBm Typ.
- High Third Order Two Tone Intercept: +46 dBm Typ.
- 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)	13	12 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)	6	7 Max.
Power Vdc	+15	+15 Min.
mA	200	250 Max.

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

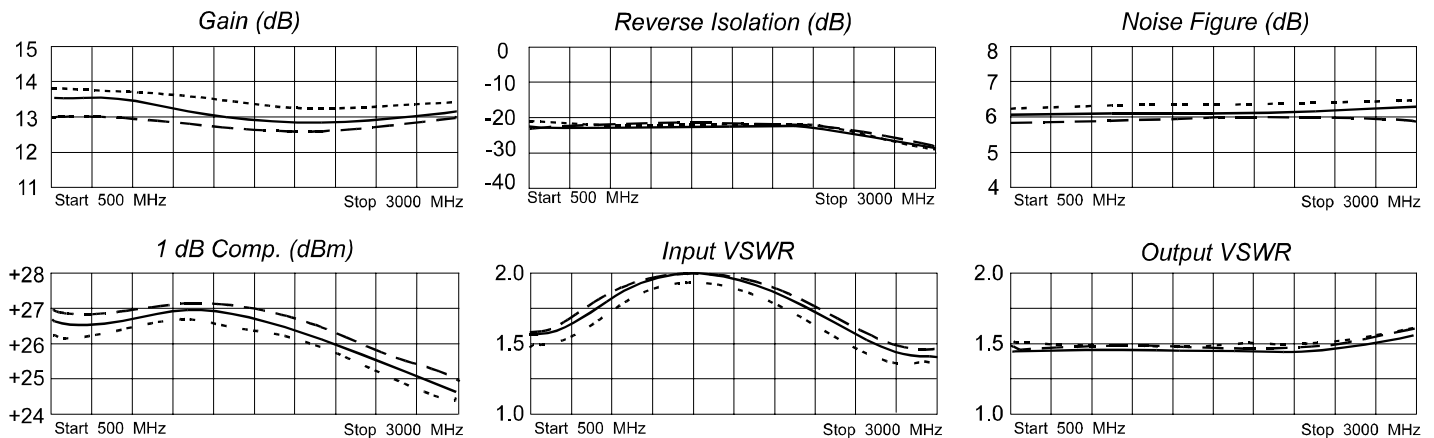
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +70 dBm (Typ.)
 Second Order Two Tone Intercept Point +65 dBm (Typ.)
 Third Order Two Tone Intercept Point +46 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 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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