

RF AMPLIFIER

MODEL *TRMP1039*

Available as: TRMP1039, 4 Pin TO-8B (T8)
 RNMP1039, 4 Pin Surface Mount (SM19)
 BRMP1039, Connectorized Housing (H1L)

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

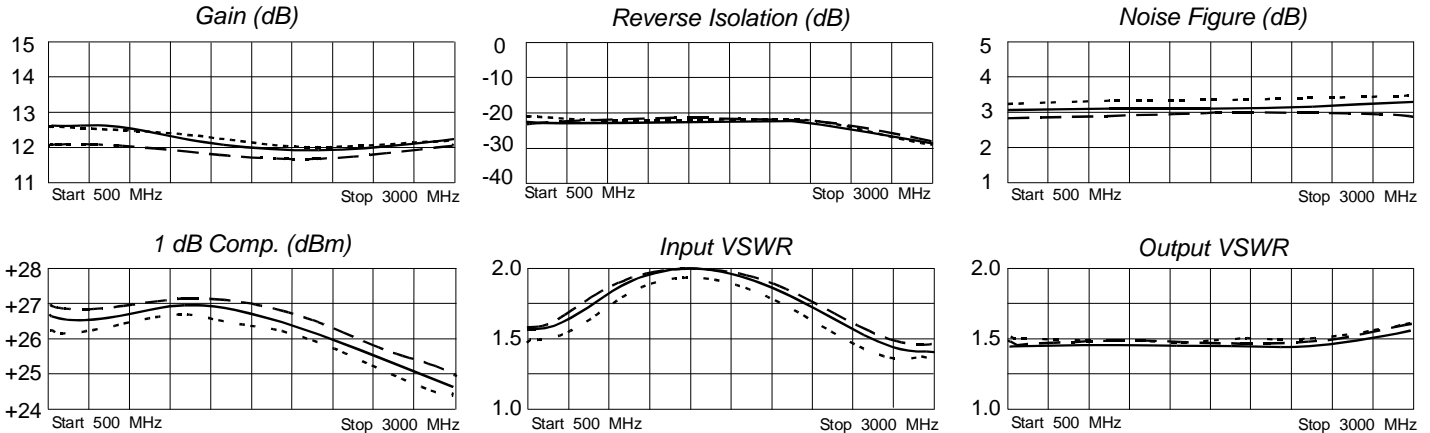
Second Order Harmonic Intercept Point +60 dBm (Typ.)
 Second Order Two Tone Intercept Point +55 dBm (Typ.)
 Third Order Two Tone Intercept Point +42 dBm (Typ.)

Maximum (No Damage) 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 1-9-2021
 ECN: Housing from H2 to H1L

Typical Performance Data



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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001