

RF AMPLIFIER

MODEL *TR3069*

Available as: TR3069, 4 Pin TO8B (T8)
 RN3069, 4 Pin Surface Mount (SM19)
 BR3069, Connectorized Housing (H2)

Features

- Medium Gain: 14.5 dB Typical
- Output Power: +19 dBm Typical
- Operating Temp. - 25 °C to + 75 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -25 °C to +75 °C
Frequency	1000-2000 MHz	1000-2000 MHz
Gain (dB)	14.5	13.5 Min.
Power @ 1 dB Comp. (dBm)	+19	+18.5 Min.
Reverse Isolation (dB)	-21	-19 Max.
VSWR In	<2.3:1	2.5:1 Max.
Out	<1.7:1	2.0:1 Max.
Noise Figure (dB)	2.2	2.6 Max.
Power Vdc	+12	+12
mA	65	70 Max.

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

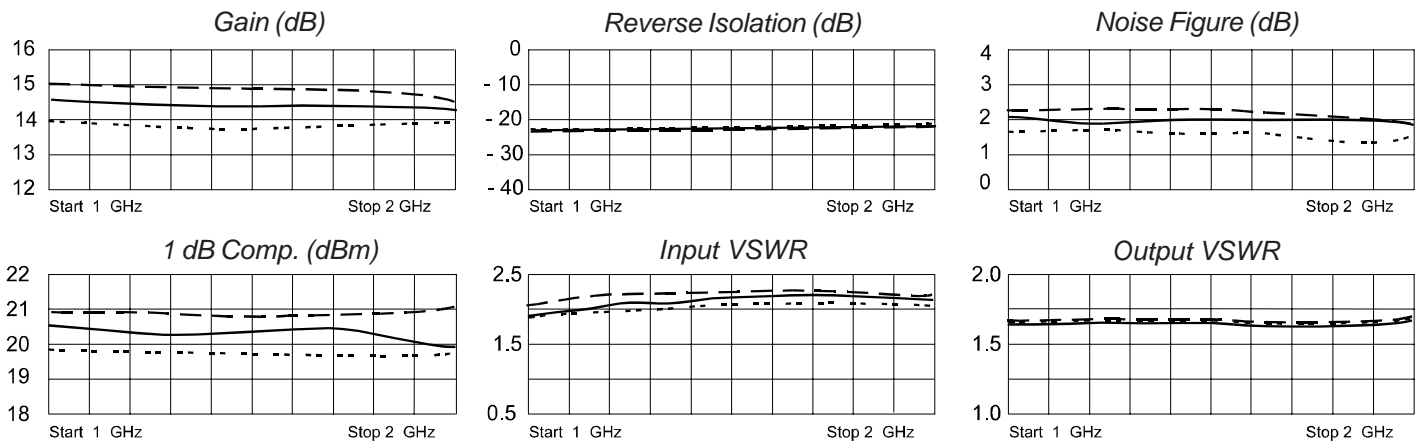
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +46 dBm (Typ.)
 Second Order Two Tone Intercept Point +41 dBm (Typ.)
 Third Order Two Tone Intercept Point +31 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 + 18 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - - + 75 °C ······ -25 °C



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