

RF AMPLIFIER

MODEL TR3029

Available as: TR3029, 4 Pin TO8B (T8)
 WN3029, 10 Lead Gull-Wing (SG4)
 BR3029, Connectorized Housing (H2)

Features

- Low Noise Figure: <2.2 dB Typical
- High Third Order Intercept: +27 dBm Typical
- Operating Temp. - 55 °C to +85 °C
- Units are Unconditionally Stable

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	100 - 500 MHz	100 - 500 MHz
Gain (dB)	25.5	24 Min.
Power @ 1 dB Comp. (dBm)	+16	+14 Min.
Reverse Isolation (dB)	-32	-30 Max.
VSWR In	<1.75:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	<2.2	2.5* Max.
Power Vdc	+15	+15
mA	45	52 Max.

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

* Above 400 MHz, Noise Figure = 3.0 dB Maximum

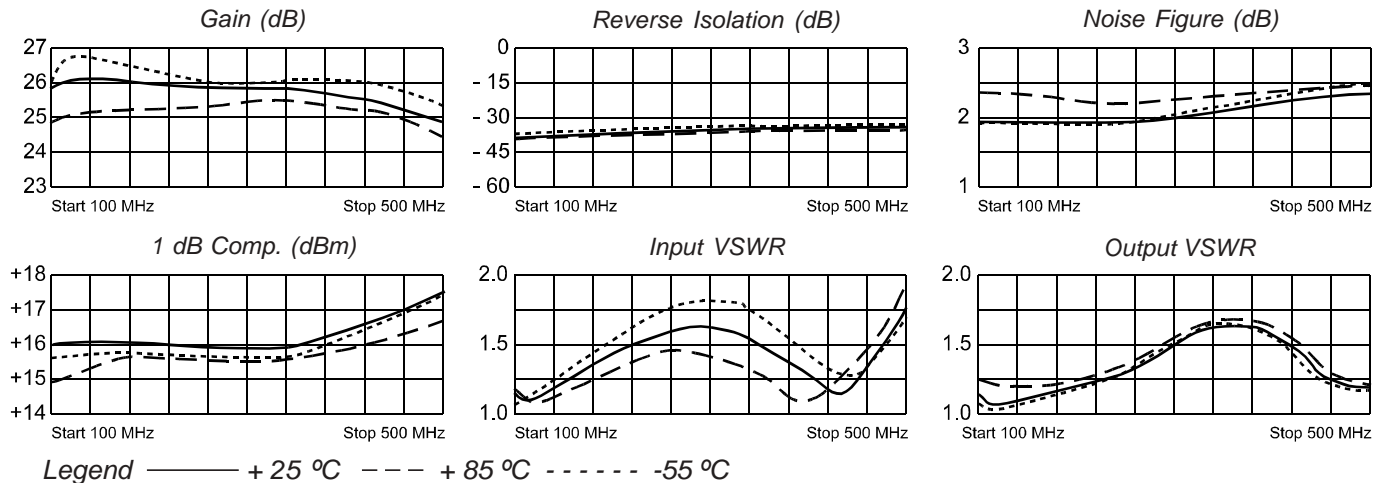
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +46 dBm (Typ.)
 Second Order Two Tone Intercept Point +41 dBm (Typ.)
 Third Order Two Tone Intercept Point +27 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 0.2 Watt (3 µsec Max.)

Typical Performance Data



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