

RF AMPLIFIER

MODEL TR9036

Available as: TR9036, 4 Pin TO-8B (T8)
 RN9036, 4 Pin Surface Mount (SM19)
 BR9036, Connectorized Housing (H2)

Preliminary

Features

- High Gain: 26.5 dB Typical
- Medium Output Power: +14.5 dBm Typical
- 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	5 - 2100 MHz	10 - 2000 MHz
Gain (dB)	26.5	24 Min.
Gain Flatness (dB)	±0.8	±1.4 Max.
Power @ 1 dB Comp. (dBm)	+14.5	+13 Min.
Reverse Isolation (dB)	-45	-35 Max.
VSWR In	<1.7:1	2.0:1 Max.
VSWR Out	<1.7:1	2.0:1 Max.
Noise Figure (dB)	5.5	7.0 Max.
Power Vdc	+15	+15
mA	81	89 Max.

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

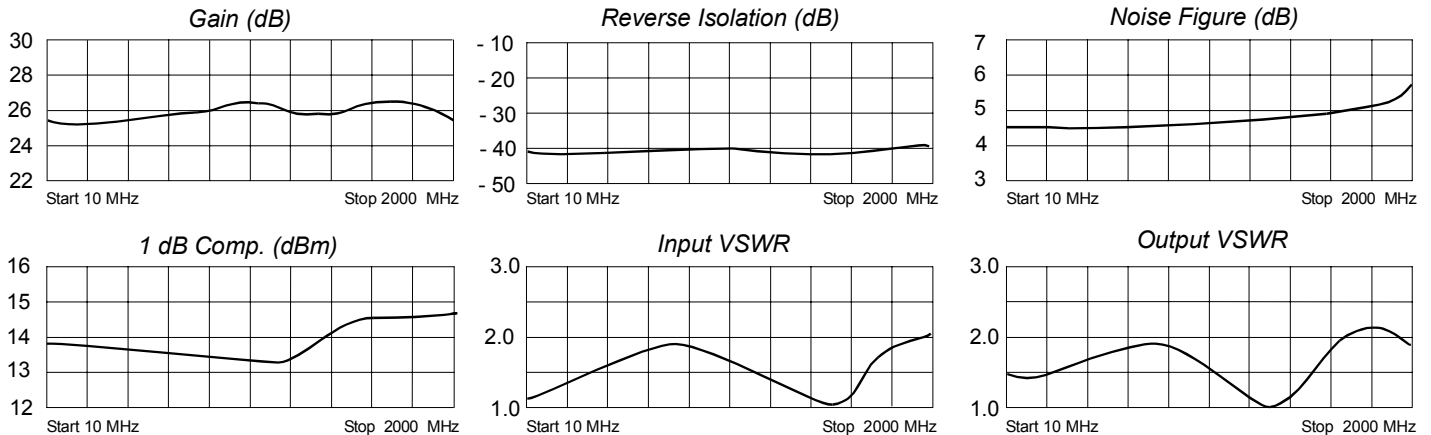
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.... +49 dBm (Typ.)
 Second Order Two Tone Intercept Point.... +43 dBm (Typ.)
 Third Order Two Tone Intercept Point..... +27.5 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 +17 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 - - - - +85 °C ······ -55 °C



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