

RF AMPLIFIER

MODEL *TR3096*

Available as: TR3096, 4 Pin TO-8B (T8)
RN3096, 4 Pin Surface Mount (SM19)
BR3096, Connectorized Housing (H2)

Preliminary

Features

- High Gain: 25 dB Typical
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening Available
- Phase Matched to a Standard Unit

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	700-1300 MHz	700-1300 MHz
Gain (dB)	25	23 Min.
Power @ 1 dB Comp. (dBm)	+24	+22 Min.
Gain Flatness (dB)	-	+/- 0.5 Max.
VSWR In	1.5:1	1.8:1 Max.
Out	1.5:1	1.8:1 Max.
Noise Figure (dB)	4.0	6.0 Max.
Power Vdc	+15	+15
mA	120	150 Max.
Gain Variation (dB)	-	+/-1.0
Phase Matched Against a Reference Unit (deg.)	-	+/-5.0

Typical Intermodulation Performance at 25 ° C

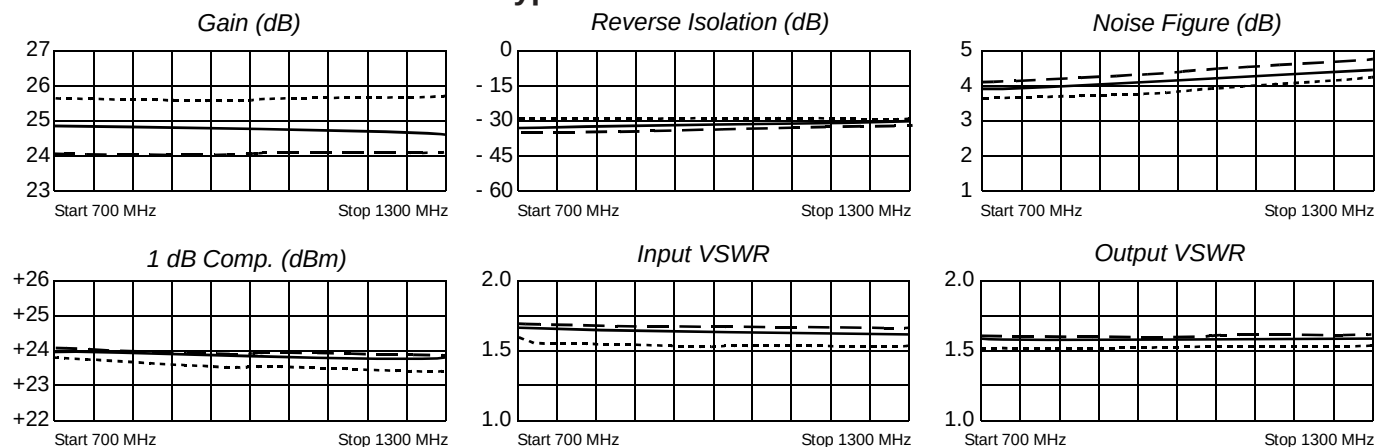
Second Order Harmonic Intercept Point +37 dBm (Typ.)
Second Order Two Tone Intercept Point +32 dBm (Typ.)
Third Order Two Tone Intercept Point +24 dBm (Typ.)

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.)

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

Typical Performance Data



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



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