

RF AMPLIFIER

MODEL TR3111

Available as: TR3111, 4 Pin TO-8B (T8)
 RN3111, Surface Mount (SM19)
 BR3111, Connectorized Housings (H2)

Features

- High Output Power: 27.5 dBm Typical
- Low Phase Bipolar Design
- 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	1 - 300 MHz	1 - 300 MHz
Gain (dB)	13.5	13 Min.
Power @ 1 dB Comp. (dBm)	+27.5	+27 Min.
Reverse Isolation (dB)	-17	-16 Max.
VSWR In	1.8:1	2.0:1 Max.
VSWR Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	4	5 Max.
Power Vdc	+15	+15
mA	180	185 Max.

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

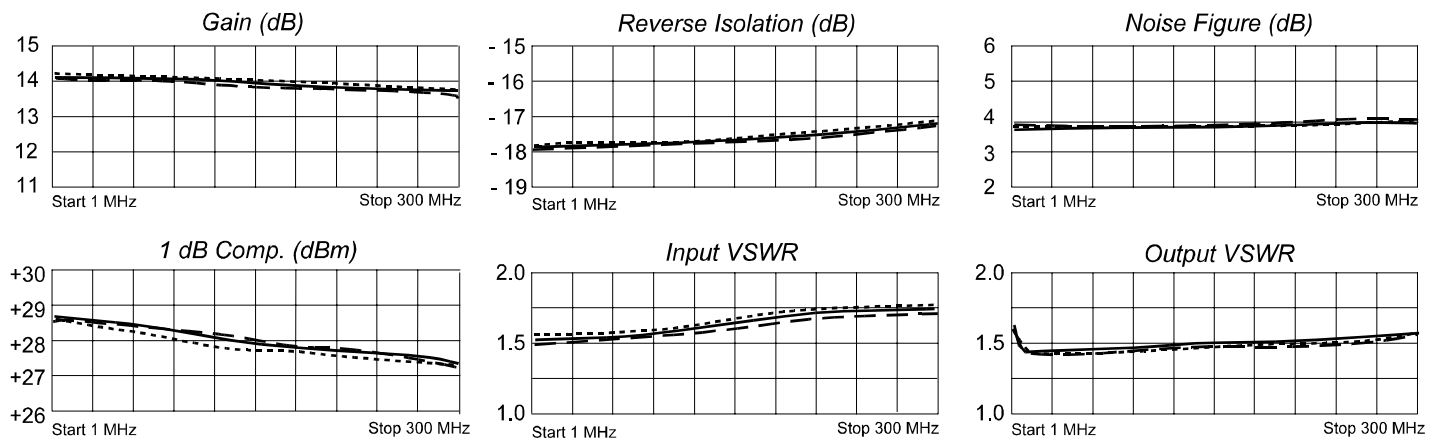
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +65 dBm (Typ.)
 Second Order Two Tone Intercept Point +60 dBm (Typ.)
 Third Order Two Tone Intercept Point +44 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 +15 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.2 Watt (3 μsec Max.)

Typical Performance Data



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



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