

RF AMPLIFIER

MODEL *TM3101*

Available as: TM3101, 4 Pin TO-8 (T4)
 TN3101, 4 Pin .450" Sq. Surface Mount (SM3)
 BX3101, SMA Connectorized Housing (H1)

Features

- High Gain: 30 dB Typical
- Low Noise Figure: 1.8 dB Typical
- Operating Temp. -55 °C to + 85 °C
- Screening to the Tables of MIL-STD-883 Available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	1200 - 1700 MHz	1200 - 1700 MHz
Gain (dB)	30	28.5 Min.
Power @ 1 dB Comp. (dBm)	+20	+19 Min.
Reverse Isolation (dB)	-37	-33 Max.
VSWR In	1.75:1	2.2:1 Max.
Out	1.75:1	2.2:1 Max.
Noise Figure (dB)	1.8	2.5 Max.
Power Vdc	+5	+5 Min.
mA	105	115 Max.

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

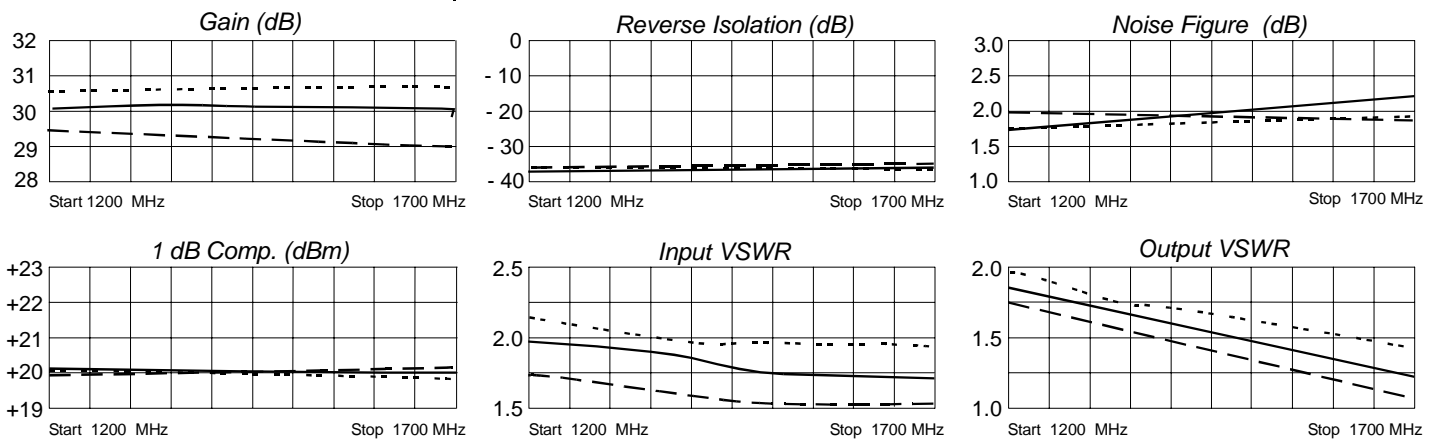
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point..... +45 dBm (Typ.)
 Second Order Two Tone Intercept Point..... +40 dBm (Typ.)
 Third Order Two Tone Intercept Point..... +30 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 + 8 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

