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 ºC to + 85 ºC
- Screening to the Tables of MIL-STD-883 Available

Typical Intermodulation Performance at 25 º 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.)

Specifications

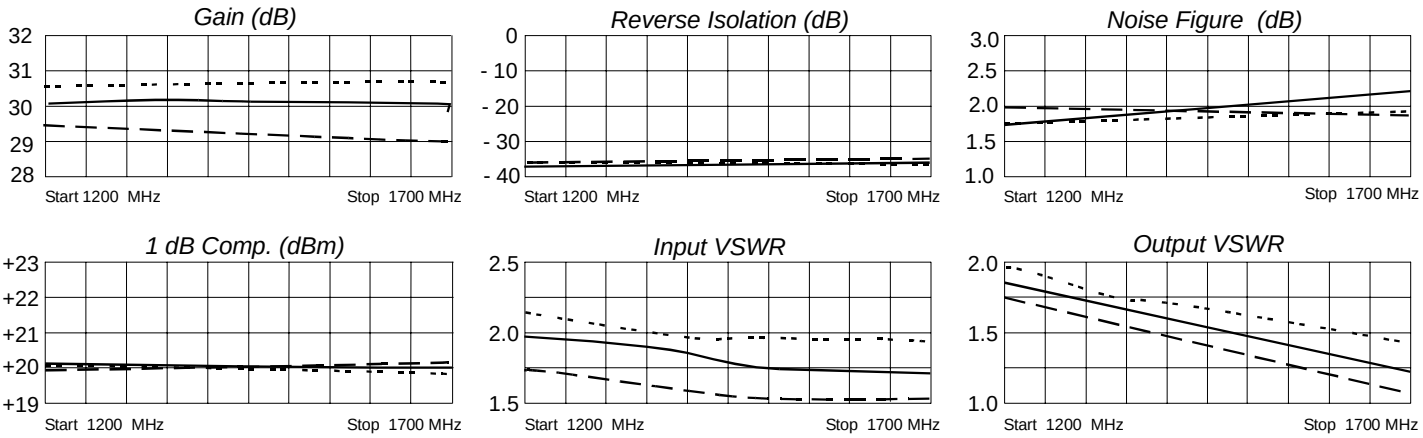
CHARACTERISTIC		TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency		1200 - 1700 MHz	1200 - 1700 MHz
Gain (dB)		30	28.5 Min.
Power @ 1 dB Comp. (dBm)		+20	+19 Min.
Reverse Isolation (dB)		-37	-33 Max.
VSWR	In	1.75:1	2.2:1 Max.
	Out	1.75:1	2.2:1 Max.
Noise Figure (dB)		1.8	2.5 Max.
Power	Vdc	+5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

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

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
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 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

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