RF AMPLIFIER
MODEL *TM3007*

Available as: TM3007, 4 Pin TO-8 (T4)
TN3007, 4 Pin Surface Mount (SM3)
FP3007, 4 Pin Flatpack (FP4)
BX3007, Connectorized Housing (H1)

Features

- Low Noise Figure: <2.7 dB Typical
- Output Power: +14 dBm Typical
- Operating Temp. - 55 ºC to + 85 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +40 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +36 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +26 dBm (Typ.)

Specifications

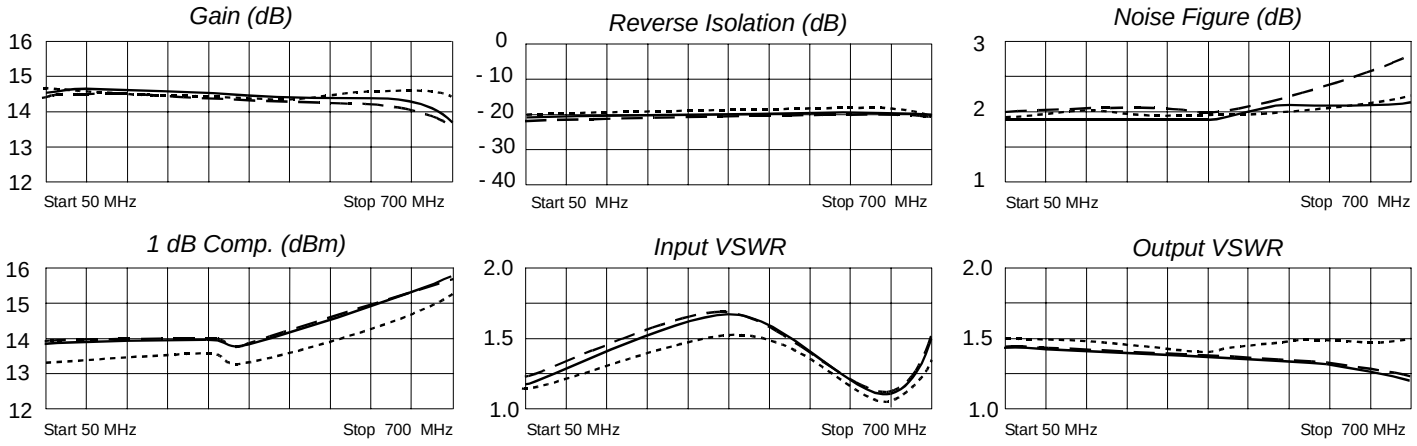
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	50 - 700 MHz	50 - 700 MHz
Gain (dB)	14.5	13 Min.
Power @ 1 dB Comp. (dBm)	+14	+13 Min.
Reverse Isolation (dB)	-19.5	-18 Max.
VSWR In Out	<1.75:1 <1.5:1	2:0:1 Max. 2:0:1 Max.
Noise Figure (dB)	<2.7	3.0 Max.
Power Vdc mA	+15 27	+15 30 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 ..... + 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.)

Typical Performance Data



Legend ——— *+ 25 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

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