

RF AMPLIFIER

MODEL *TM7147*

Available as: TM7147, 4 Pin TO-8 (T4)
 TN7147, 4 Pin Surface Mount (SM3)
 FP7147, 4 Pin Flatpack (FP4)
 BX7147, Connectorized Housing (H1)

Features

- Low Noise Figure: 2.1 dB Typical
- 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	5 - 300 MHz	10 - 250 MHz
Gain (dB)	12.5	11 Min.
Power @ 1 dB Comp. (dBm)	+15.5	+14.0 Min.
Reverse Isolation (dB)	-15.5	-15 Max.
VSWR In	<1.2:1	1.5:1 Max.
VSWR Out	<1.2:1	1.5:1 Max.
Noise Figure (dB)	2.1	3.0 Max.
Power Vdc	+5	+5 Min.
mA	36	40 Max.

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

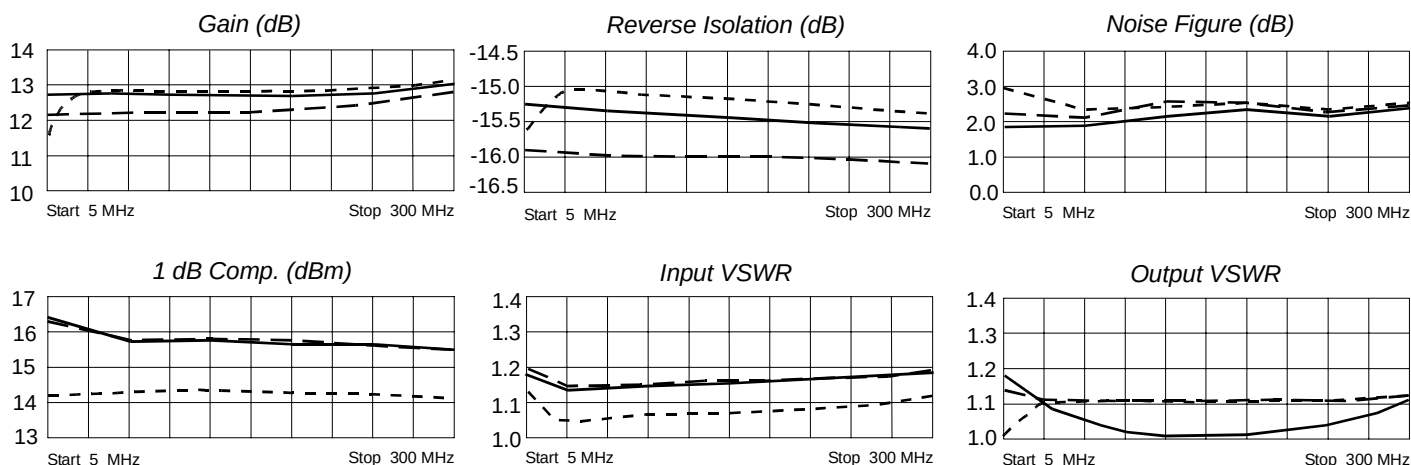
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +52 dBm (Typ.)
 Second Order Two Tone Intercept Point +46 dBm (Typ.)
 Third Order Two Tone Intercept Point +31 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



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