

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)
 PN7147, Reduced Size Surface Mount (SM11)

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 dB	11 dB Min.
Noise Figure (dB)	2.1 dB	3.0 dB Max.
Power @ 1 dB Comp. (dBm)	+15.5 dBm	+14.0 dBm Min.
VSWR In	<1.2:1	1.5:1
Out	<1.2:1	1.5:1 Max.
Power Vdc mA	+5 36 mA	+5 40 mA Max.

Typical Intermodulation Performance at 25 °C

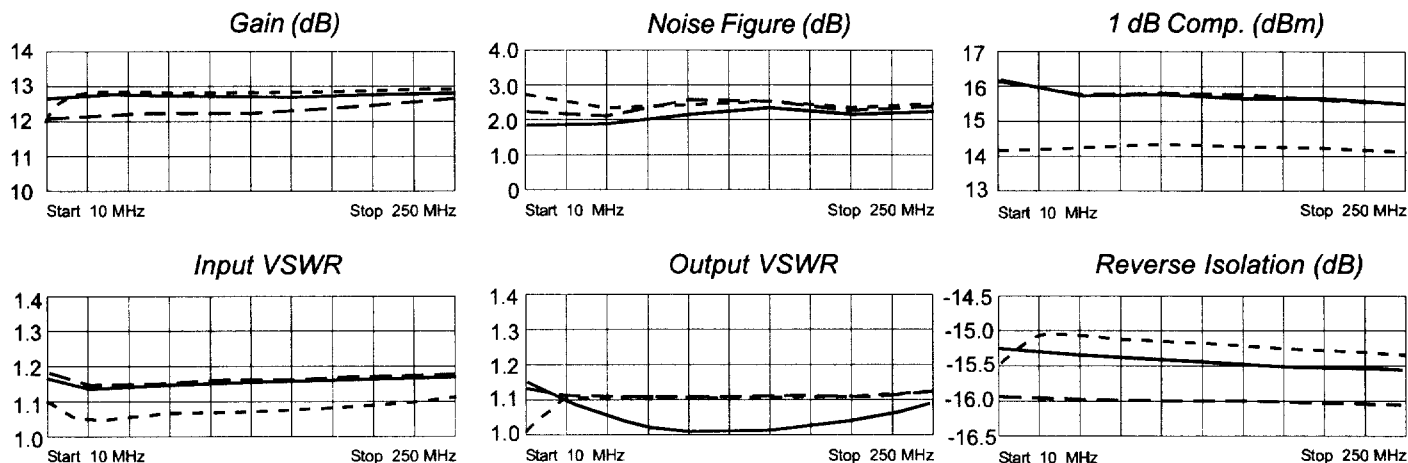
Second Order Harmonic Intercept Point.....+ 52 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+ 46 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+ 31 dBm (Typ.)

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.)

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

Typical Performance Data



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

Amplifonix

2707 Black Lake Place, Philadelphia, PA 19154

TEL 215-464-4000 • • • FAX 215-464-4001 11/01/02