

# RF AMPLIFIER

## MODEL *TM5347*

Available as: TM5347, 4 Pin TO-8 (T4)  
 TN5347, 4 Pin Surface Mount (SM3)  
 FP5347, 4 Pin Flatpack (FP4)  
 BX5347, Connectorized Housing (H1)

### Features

- Low Noise Figure: <3.5 dB Typical
- Wide Frequency Range
- 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	20-1100 MHz	20-1100 MHz
Gain (dB)	14	13.0 Min.
Power @ 1 dB Comp. (dBm)	+11	+9.0 Min.
Reverse Isolation (dB)	-18	-17 Min.
VSWR In	<1.6:1	<2.0:1 Max.
Out	<1.6:1	2.0:1 Max.
Noise Figure (dB)	<3.5	4.0 Max.
Power Vdc	+12	+12 Min.
mA	27	29 Max.

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

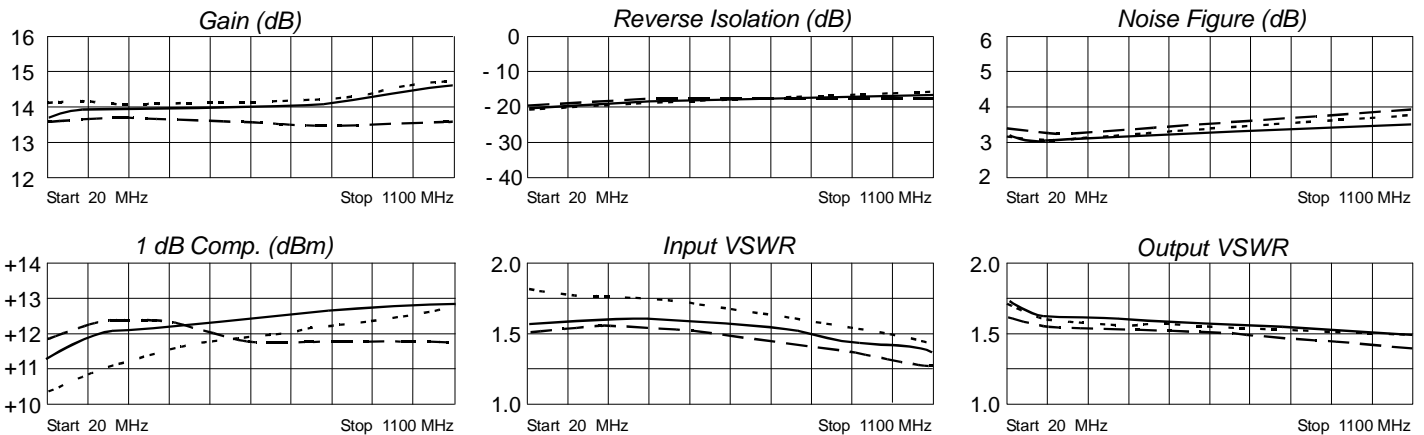
### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point..... +39 dBm (Typ.)  
 Second Order Two Tone Intercept Point..... +33 dBm (Typ.)  
 Third Order Two Tone Intercept Point..... +23 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 ..... + 15 Volts  
 Continuous RF Input Power ..... + 13 dBm  
 Short Term RF Input Power..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power..... 0.2 Watt (3 µsec Max.)

### Typical Performance Data



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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 6/22/04

www.spectrummicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001