

RF AMPLIFIER

MODEL *TM9740*

Available as: TM9740, 4 Pin TO-8 (T4)
 TN9740, 4 Pin Surface Mount (SM3)
 FP9740, 4 Pin Flatpack (FP4)
 BX9740, Connectorized Housing (H1)

Features

- Output Power: +21.5 dBm Typical
- Third Order Intercept: +39 dBm Typical
- FET Design
- Operating Temp. 0 °C to +70 °C

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	2000-2500 MHz	2000-2500 MHz
Gain (dB)	11	10 Min.
Power @ 1 dB Comp. (dBm)	+21.5	+20 Min.
Reverse Isolation (dB)	-22	-20 Max.
VSWR In	<1.25:1	1.5:1 Max.
Out	<1.5:1	1.5:1 Max.
Noise Figure (dB)	4.0	5.5 Max.
Power Vdc	+15	+15
mA	98	105 Max.

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

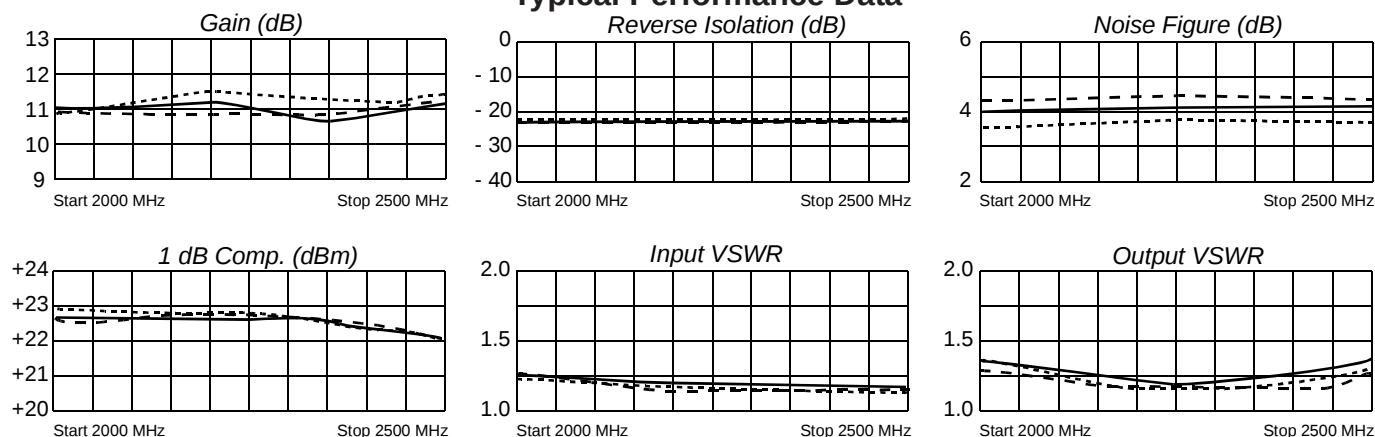
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +57 dBm (Typ.)
 Second Order Two Tone Intercept Point +51 dBm (Typ.)
 Third Order Two Tone Intercept Point +39 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 + 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 °C - - - - + 70 °C ······ 0 °C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 3/10/04

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