

RF AMPLIFIER

MODEL *TM9730*

Available as: TM9730, 4 Pin TO-8 (T4)
 TN9730, 4 Pin Surface Mount (SM3)
 FP9730, 4 Pin Flatpack (FP4)
 BX9730, Connectorized Housing (H1)

Features

- n High Output Power: +26 dBm Typical
- n Third Order Intercept: +37 dBm Typical
- n GaAs FET Design
- n Operating Temp. -55 °C to +85 °C

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	1400-2400 MHz	1400-2400 MHz
Gain (dB)	12	8 Min.
Power @ 1 dB Comp. (dBm)	+26	+24 Min.
Reverse Isolation (dB)	-18	-16 Max.
VSWR In	<2.25:1	2.75:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise Figure (dB)	<4.0	6.0 Max.
Power Vdc	+15	+15
mA	150	160 Max.

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

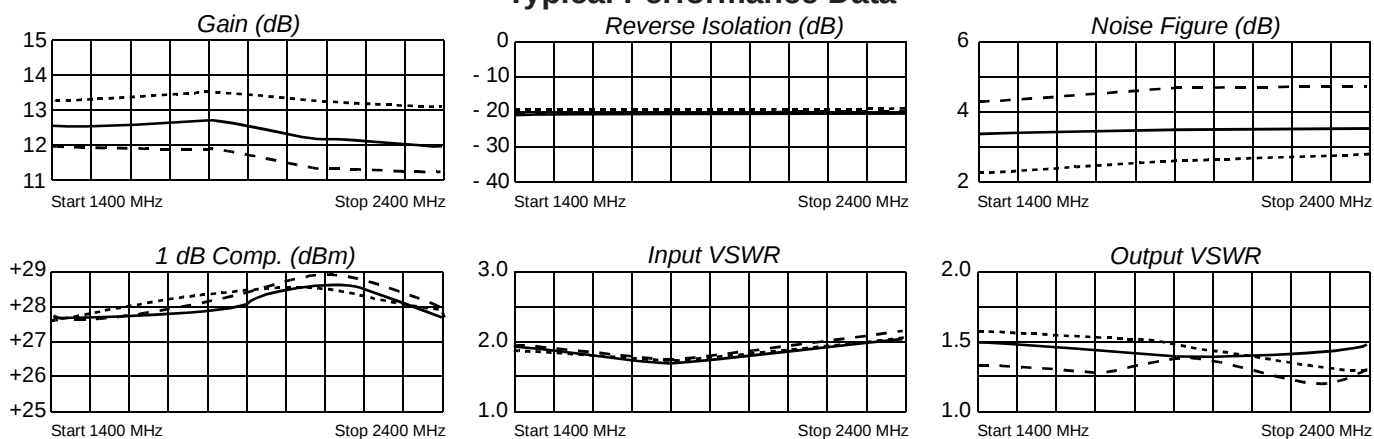
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +52 dBm (Typ.)
 Second Order Two Tone Intercept Point +46 dBm (Typ.)
 Third Order Two Tone Intercept Point +37 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 + 18 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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