

RF AMPLIFIER

MODEL *TM7250*

Available as: TM7250, 4 Pin TO-8 (T4)
 TN7250, 4 Pin Surface Mount (SM3)
 FP7250, 4 Pin Flatpack (FP4)
 BX7250, Connectorized Housing (H1)

Features

- High Gain: 33 dB Typical
- Low Power Drain: 70 mW @ 5 Volts.
- 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 - 200 MHz	5 - 200 MHz
Gain (dB)	33	32 Min.
Power @ 1 dB Comp. (dBm)	-1	-3 Min.
Reverse Isolation (dB)	-47.5	-45 Max.
VSWR In	1.75:1	2.0:1 Max.
Out	1.75:1	2.0:1 Max.
Noise figure (dB)	2.0	3.0 Max.
Power Vdc	+5	+5
mA	13	18 Max.

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

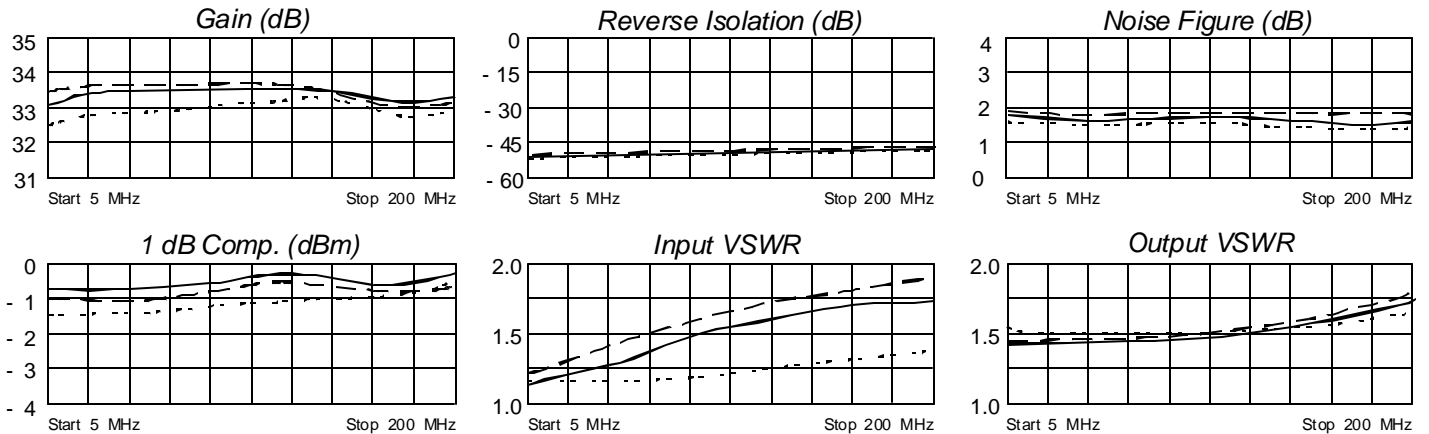
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +15 dBm (Typ.)
 Second Order Two Tone Intercept Point +9 dBm (Typ.)
 Third Order Two Tone Intercept Point +10 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 + 10 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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