

RF AMPLIFIER

MODEL *TM7189*

Available as: TM7189, 4 Pin TO-8 (T4)
 TN7189, 4 Pin Surface Mount (SM3)
 FP7189, 4 Pin Flatpack (FP4)
 BX7189, Connectorized Housing (H1)

Features

- Low Noise Figure: 3.8 dB Typical
- High Output Power: +23 dBm Typical
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

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..... +36 dBm (Typ.)

Specifications

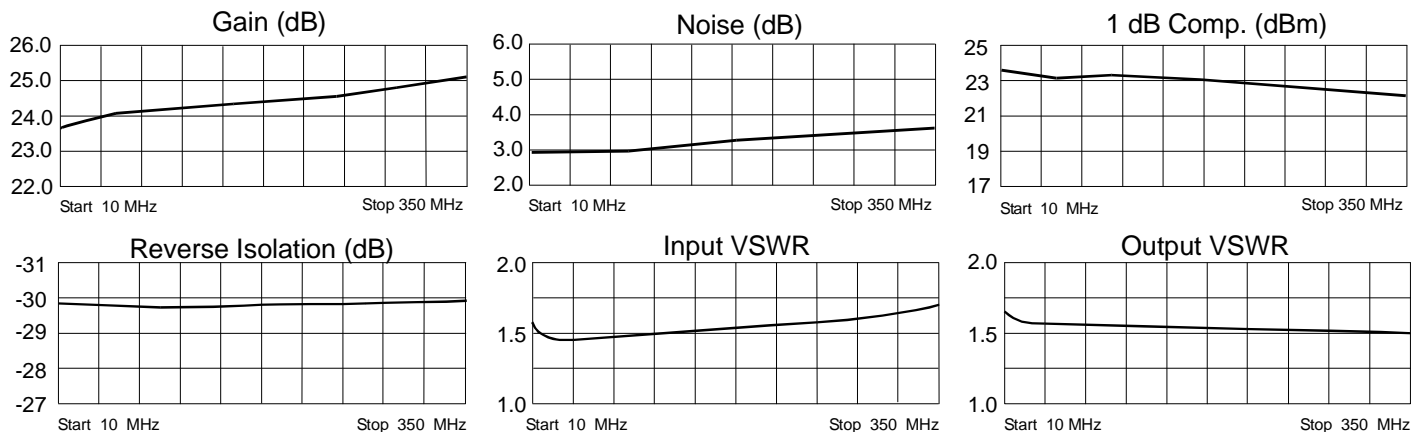
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 350 MHz	10 - 250 MHz
Gain (dB)	24.5	22.5 Min.
Gain Flatness (dB)	±0.5	±0.8 Max.
Power @ 1 dB Comp. (dBm)	+23	+21.5 Min.
VSWR In	1.7:1	2.0:1 Max.
Out	1.7:1	2.0:1 Max.
Noise Figure (dB)	3.8	4.8 Max.
Power Vdc	+15	+15 Min.
mA	60	70 Max.

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage + 19 Volts
 Continuous RF Input Power + 10 dBm
 Short Term RF Input Power 100 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.
 Revision 8/18/11

Typical Performance Data



Legend ——— +25 °C



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