

RF AMPLIFIER

MODEL *TM7105*

Available as: TM7105, 4 Pin TO-8 (T4)
 TN7105, 4 Pin Surface Mount (SM3)
 FP7105, 4 Pin Flatpack (FP4)
 BX7105, Connectorized Housing (H1)

Features

- Medium Gain: 15 dB Typical
- Low Noise Figure: 2.5 dB Typical
- 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	1 - 250 MHz	1 - 150 MHz
Gain (dB)	15.0	13.5 Min.
Gain Flatness (dB)	±0.4	±0.7 Max.
Power @ 1 dB Comp. (dBm)	+15	+14 Min.
Reverse Isolation (dB)	-18.5	-18 Max.
VSWR In	<1.6:1	2.0:1 Max.
VSWR Out	<1.6:1	2.0:1 Max.
Noise Figure (dB)*	2.5	3.5 Max.
Power Vdc	+5	+5 Min.
mA	35	45 Max.

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point..... +46 dBm (Typ.)
 Second Order Two Tone Intercept Point..... +42 dBm (Typ.)
 Third Order Two Tone Intercept Point..... +30 dBm (Typ.)

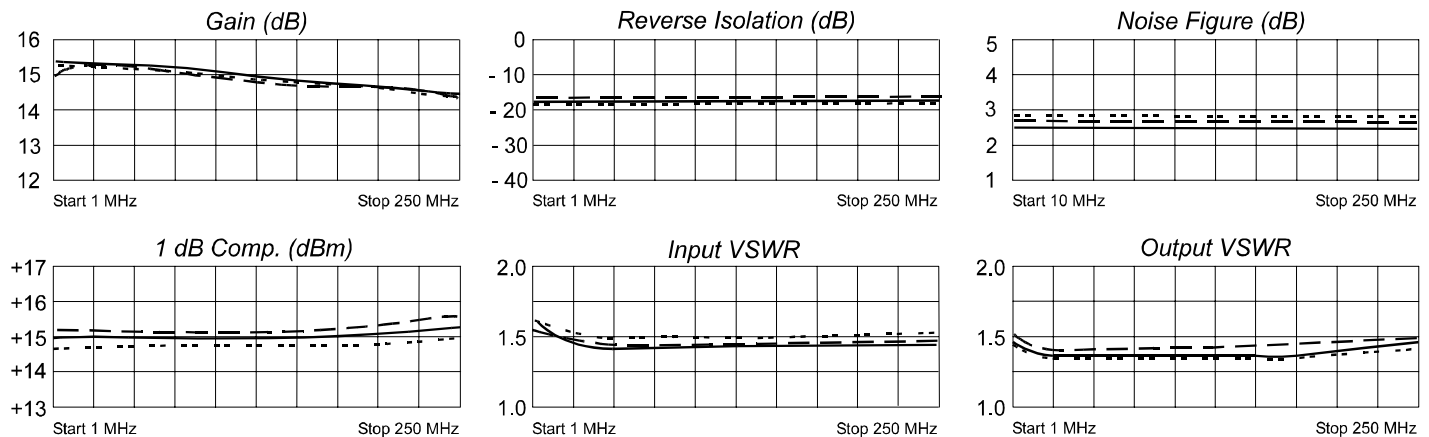
Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +12 Volts
 Continuous RF Input Power +15 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

NOTES: Care should always be taken to effectively ground the case of each unit.
 If DC is present on RF input/output, this model requires additional external blocking capacitors.

*Noise Figure measured at 10 to 150 MHz.

Typical Performance Data



Legend ——— +25 °C - - - +85 °C -55 °C



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