

RF AMPLIFIER

MODEL **TM9393**

Available as: TM9393, 4 Pin TO-8
 TN9393, 4 Pin Surface Mount (SM3)
 BX9393, SMA Connectorized Housing (H1L)

Features

- Wide Bandwidth: 300 - 3200 MHz
- Low Noise Figure: <1.7 dB
- 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 (MHz)	300 - 3200 MHz	400 - 3000 MHz
Gain (dB)	14.8	13.5 Min.
Gain Flatness (dB)	+/- 0.3	+/- 0.7 Max.
Power @ 1 dB Comp. (dBm)	+18.5	+17.0 Min.
VSWR In	1.5:1	1.9:1 Max.
VSWR Out	1.5:1	1.9:1 Max.
Reverse Isolation (dB)	20.5	—
Noise Figure (dB)	<1.7	2.5 Max.
Power Vdc	+15	+15
mA	70	75 Max.

Note: Care should always be taken to effectively ground the case of each unit.
 Output termination should always be 50 ohms.

Typical Intermodulation Performance at 25 °C*

Second Order Harmonic Intercept Point..... +48 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+42 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+31 dBm (Typ.)

*Typical @ 25°C measured at 1500 MHz

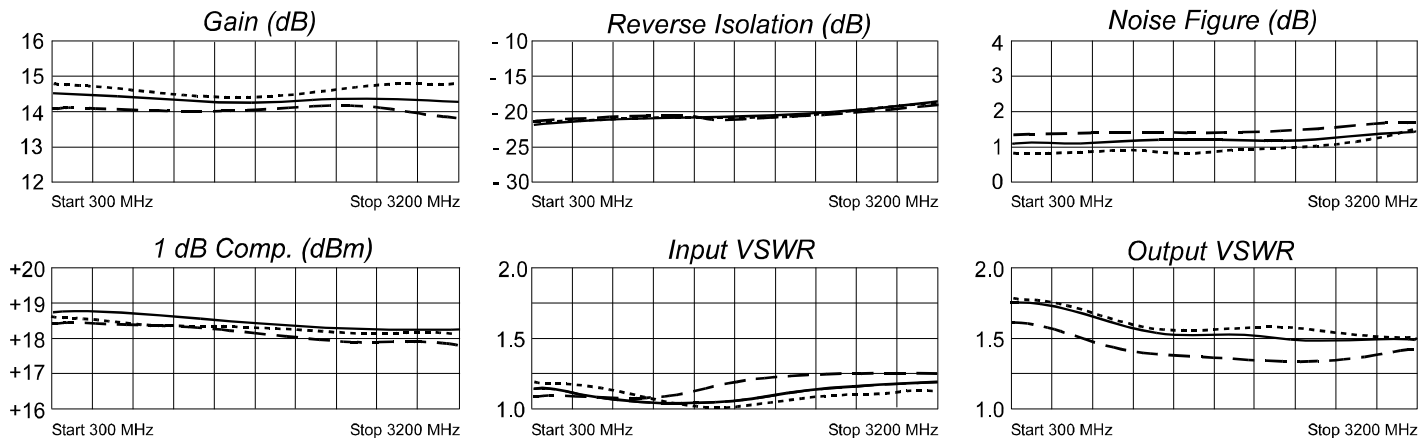
Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +17 Volts
 Continuous RF Input Power 13 dBm
 Short Term RF Input Power +100 mW (1 Minute Max.)
 Maximum Peak Power +0.500 Watts (3 µsec Max.)

Revision: 4-25-2016

ECN: Maximum Input Power reduction to 13 dBm

Typical Performance Data



Legend ——— +25 °C - - - +85 °C ······ -55 °C



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