

RF AMPLIFIER

MODEL *TM9091*

Available as: TM9091, 4 Pin TO-8LP
TN9091, 4 Pin Surface Mount (SM3)
BX9091, Connectorized Housing (H1)

Preliminary

Features

- Wide Bandwidth 30-2200 MHz
- Low Noise Figure: 1.5 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)	30 -2200 MHz	30 -2000 MHz
Gain (dB)	17.0	15.5 Min.
Gain Flatness (dB)	+/- 0.4	+/- 0.7 Max.
Power @ 1 dB Comp. (dBm)	+19.5	+18.5 Min.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Reverse Isolation (dB)	22	—
Noise Figure (dB) 300-2000 MHz	<1.5	2.0 Max.
Power Vdc	+5	+5
mA	60	66 Max.

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

Note: Measured in a 50 ohm system at +5 volts dc.

Typical Intermodulation Performance at 25 °C*

Second Order Harmonic Intercept Point..... +50 dBm (Typ.)

Second Order Two Tone Intercept Point.....+43 dBm (Typ.)

Third Order Two Tone Intercept Point.....+33 dBm (Typ.)

*Typical @ 25C measured at 500 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

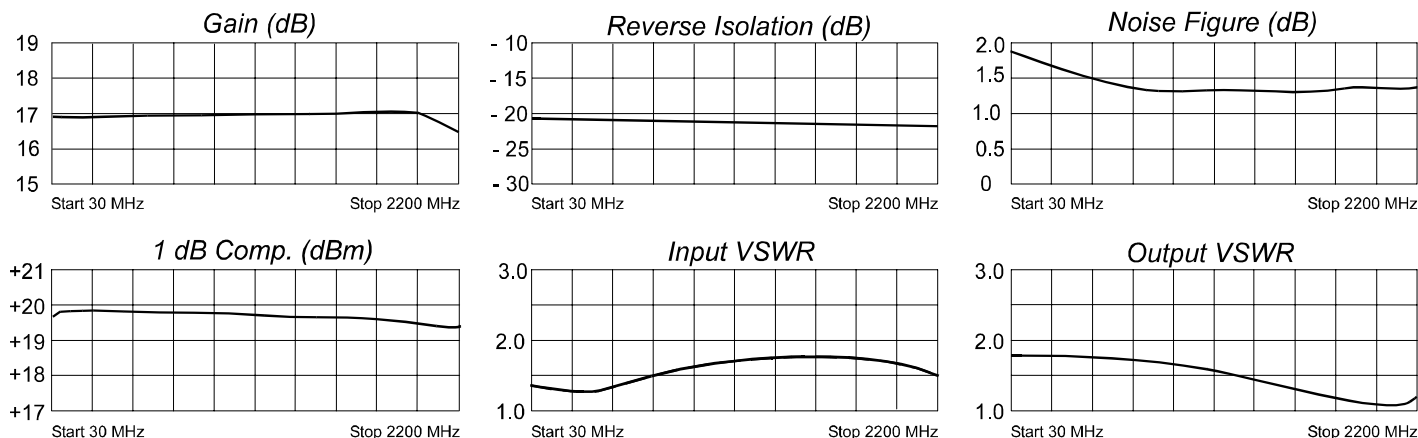
DC Voltage +12 Volts

Continuous RF Input Power +21 dBm

Short Term RF Input Power +24 dBm (1 Minute Max.)

Maximum Peak Power +27 dBm (3 µsec Max.)

Typical Performance Data



Legend ——— +25 °C - - - +85 °C -55 °C



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