RF AMPLIFIER
MODEL *TM7291*

Available as: TM7291, 4 Pin TO-8 (T4)
TN7291, 4 Pin Surface Mount (SM3)
FP7291, 4 Pin Flatpack (FP4)
BX7291, Connectorized Housing (H1)

Features

- High Output Power: +19.0 dBm Typical
- Operating Temp. - 55 ºC to +85 ºC
- Low Noise Figure: 3.0 dB Typical
- Environmental Screening Available

Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point..... +45 dBm (Typ.)
Second Order Two Tone Intercept Point..... +40 dBm (Typ.)
Third Order Two Tone Intercept Point..... +31 dBm (Typ.)

Specifications

CHARACTERISTIC		TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency		5 - 350 MHz	10 - 250 MHz
Gain (dB)		24.0	22.7 Min.
Power @ 1 dB Comp. (dBm)		+19.0	+17.5 Min. *
Reverse Isolation (dB)		- 28	- 25 Max.
VSWR	In	<1.5:1	2.0:1 Max.
	Out	<1.4:1	1.8:1 Max.
Noise Figure (dB)		3.0	4.0 Max.
Power	Vdc	+15	+15 Min.
	mA	28	32 Max.

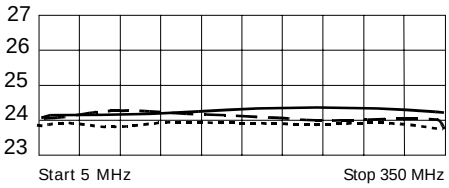
Note: Care should always be taken to effectively ground the case of each unit.
* .5 dB less below 20 MHz.

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 18 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

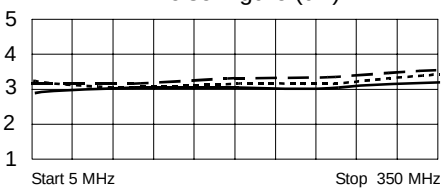
Gain (dB)



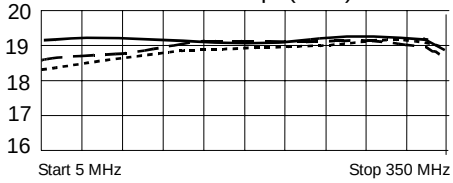
Reverse Isolation (dB)



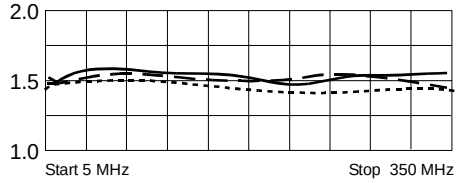
Noise Figure (dB)



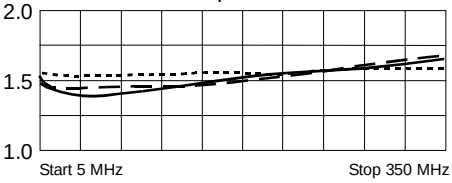
1 dB Comp. (dBm)



Input VSWR



Output VSWR



Legend ——— *+ 25 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

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