RF AMPLIFIER
MODEL *TM9342*

Available as: TM9342, 4 Pin TO-8LP
TN9342, 4 Pin Surface Mount (SM3)
BX9342, Connectorized Housing (H1)

Preliminary

Features

- Wide Bandwidth: 10 to 2400 MHz
- Operating Temp. -55 ºC to +85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	5 - 2450 MHz	10 - 2400 MHz
Gain (dB)	16	14 Min.
Gain Flatness (dB)	±0.25	±0.9 Max.
Power @ 1 dB Comp. (dBm) 10-1500 MHz 1500-2400 MHz	>+12 >+13.5	+11 Min. +12.5 Min.
Reverse Isolation (dB)	-26	-23 Max.
VSWR In Out	<1.5:1 <1.5:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	5.0	6.5 Max.
Power Vdc mA	+15 58	+15 65 Max.

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

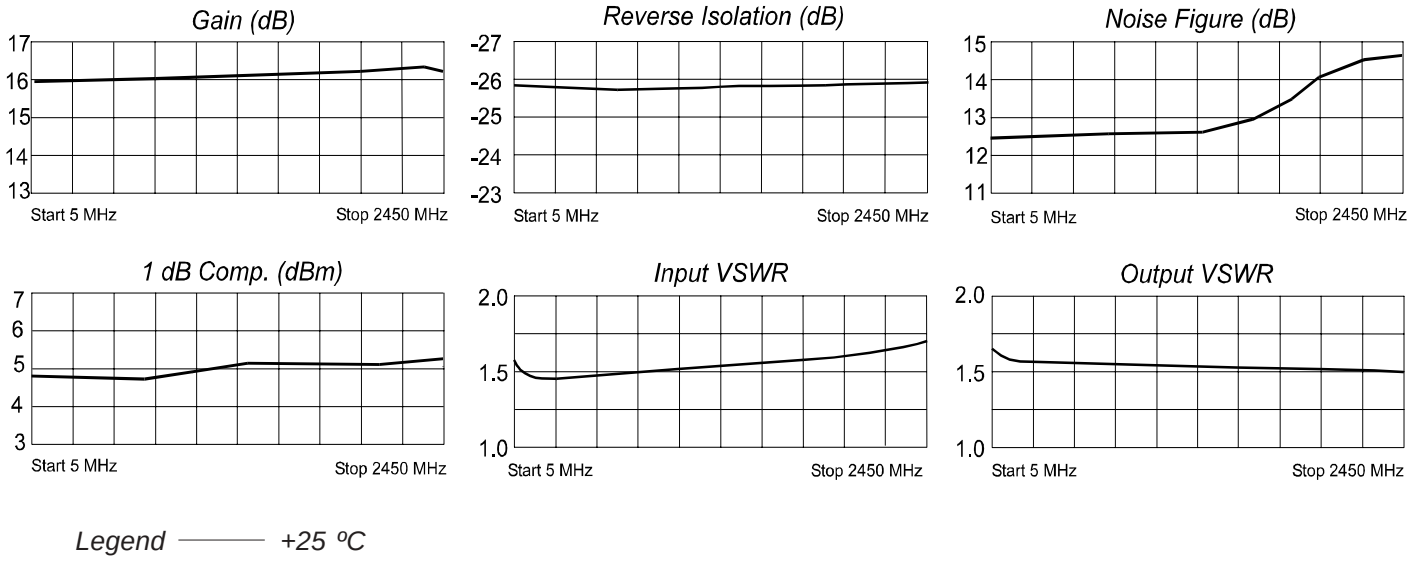
Typical Intermodulation Performance at 25 ºC

Second Order Harmonic Intercept Point ..... +38 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +33 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +23 dBm (Typ.)

Absolute Maximum (No Damage) 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 ... 100 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— *+25 ºC*

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