Model # TN9240

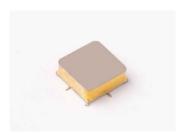
Available as:

TN9240, 4 Pin 0.450" Sq. Surface Mount (SM3) BX9240, SMA Connectorized Housing (H1L)





RF/Microwave Amplifier



Features

- No External Circuitry Needed
- RoHS Compliant Model Available
- Unconditionally Stable
- EAR99

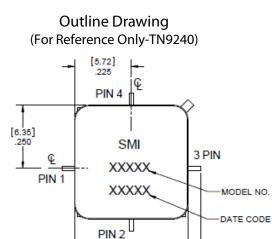
Technical Specifications

Characteristic	TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency	2000 MHz – 4000 MHz	2000 MHz – 4000 MHz
Gain (dB)	21	20 Min.
Power @ 1 dB Comp. (dBm)	+21	+20 Min.
Reverse Isolation (dB)	25	
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	4.5	6.5 Max.
Power Vdc	+5	+5
mA	150	175 Max.

1) Care should always be taken to effectively ground the case of each unit

2) Typical values are measured at 25°C, but not guaranteed.

3) Package drawings below are for reference only.



[11.43] .450 SQ

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point:	+50 dBm (Typ.)
Second Order Two Tone Intercept Point:	+45 dBm (Typ.)
Third Order Two Tone Intercept Point:	+33 dBm (Typ.)

Note: Intercept Values Measured at 3000 MHz.

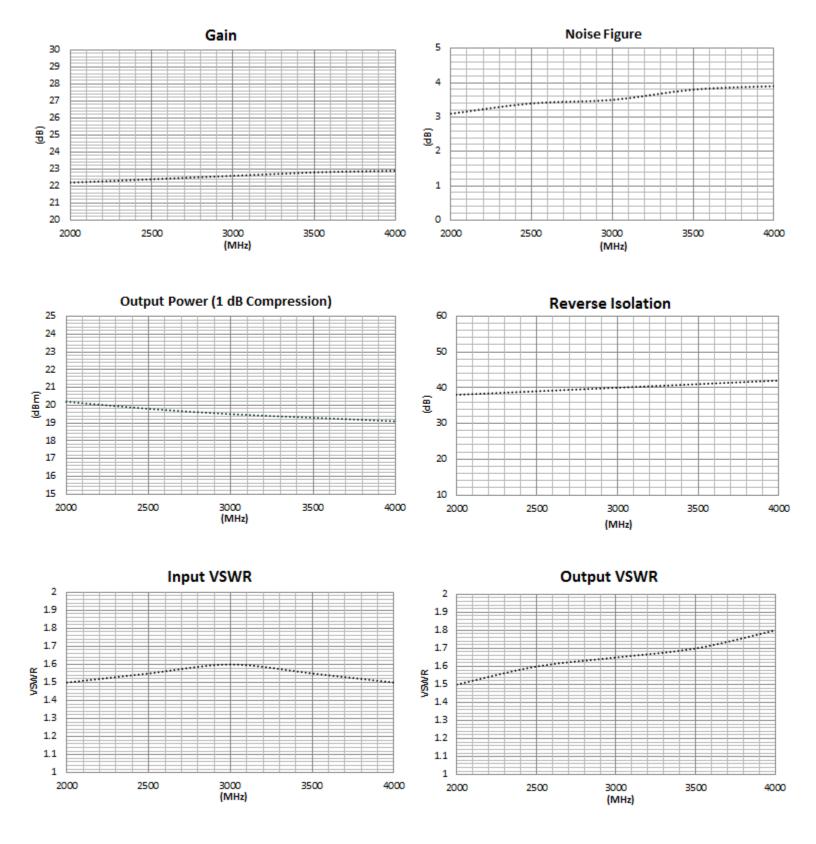
Absolute Maximum (<u>No Damage</u>) Ratings

Operating Temperature	-55°C to +100 °C
Storage Temperature	-62°C to +125°C
DC Voltage	+8 Volts
Continuous RF Input Power	+13 dBm
Short Term RF Input Power	100 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)
Junction Temperature Rise Above Case (Tjc)	52.5°C/W

[1.27±0.18] .050±.007



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Typical Performance

Rev Date: 2/15/2016

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Instructions

Grounding Instructions	Care should be taken to effectively ground each unit.	
Revisions	API reserves the right to make revisions to both product and/or the information contained within their datasheets without advanced notice.	
Min./Max. Values	Specifications are guaranteed when tested in a 50 Ω (ohm) system.	
Typical performance graphs and values are measured at 25°C, but not guaranteed.		

Outline Drawing

(For Reference Only-BX9240)

HOUSING: 70/30 CN/NI ELECTRONIC GRADE

