

Available as:

TR9048, 4 Pin .600" TO-8B (T8)
 RN9048, 4 Pin .525" Surface Mount (SM19)
 BR9048, SMA Connectorized Laser Seal Housing (H2L)

RF/Microwave Amplifier



Features

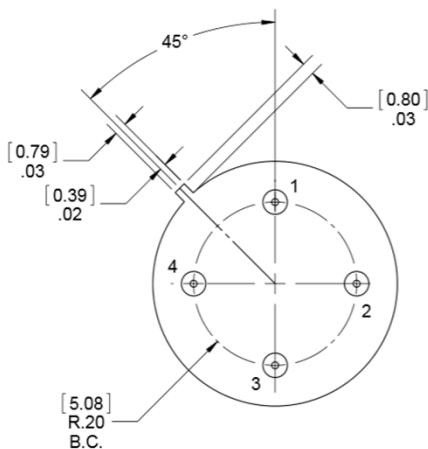
- High IP2: +52 dBm
- Wide 700 – 4100 MHz Bandwidth
- Environmental Screening Available

Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency		700 – 4100 MHz	1000 – 4000 MHz
Gain (dB)		16.8	15.5 Min.
Power @ 1 dB Comp. (dBm)		+24	+22.5 Min.
Reverse Isolation (dB)		-38	--
VSWR	In	1.5:1	2.0:1 Max.
	Out	1.5:1	2.0:1 Max.
Noise Figure (dB)		4.0	5.0 Max.
Power	Vdc	+15	+15
	mA	225	245 Max.

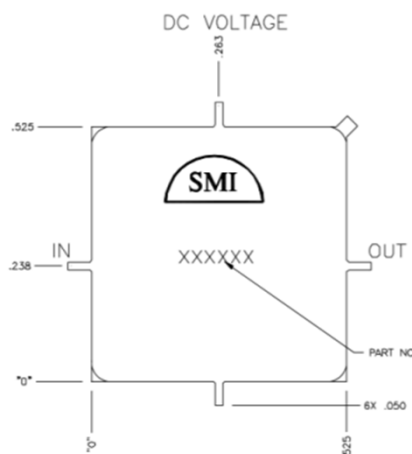
*Typical values are measured at 25°C, but not guaranteed.

Notes: Care should always be taken to effectively ground the case of each unit. Outline drawings below for reference only.



BOTTOM VIEW

TR9408



RN9408

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point:	+58 dBm (Typ.)
Second Order Two Tone Intercept Point:	+52 dBm (Typ.)
Third Order Two Tone Intercept Point:	+35 dBm (Typ.)

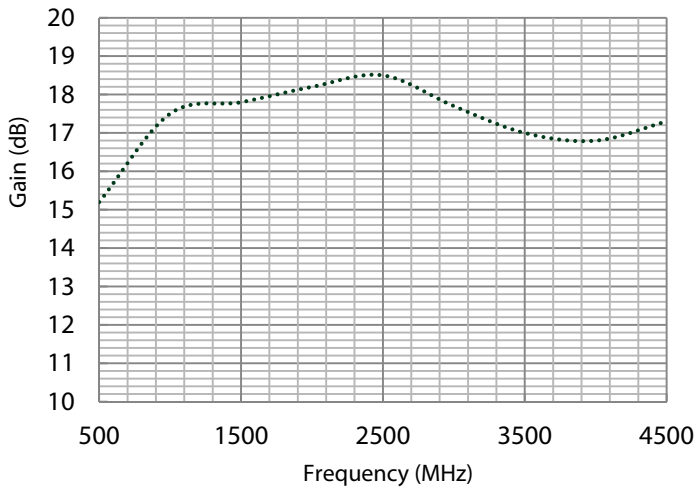
Note: Measured at 2000 MHz

Absolute Maximum (No Damage) Ratings

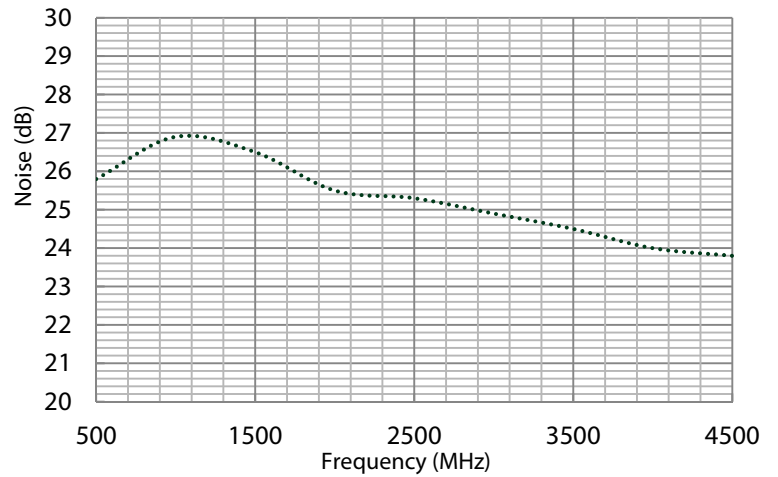
Operating Temperature	-55°C to +100 °C
Storage Temperature	-69°C to +125°C
Case Temperature	+125 °C
DC Voltage	+18 Volts
Continuous RF Input Power	+13 dBm
Short Term RF Input Power	200 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.2 Watt (3 µsec Max.)

Typical Performance Graphs

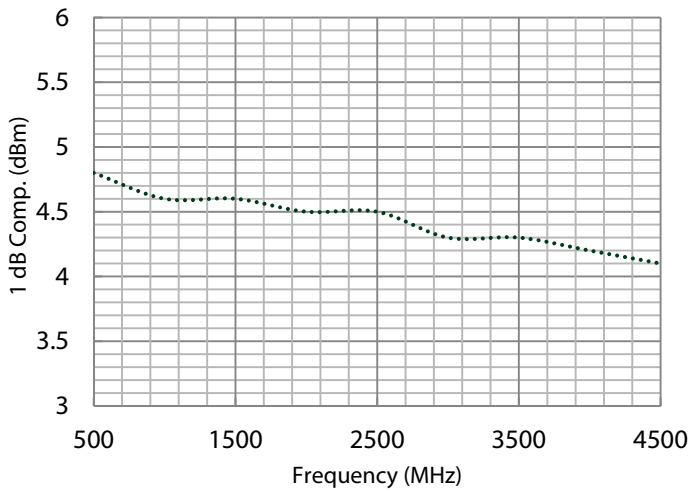
Gain (dB)



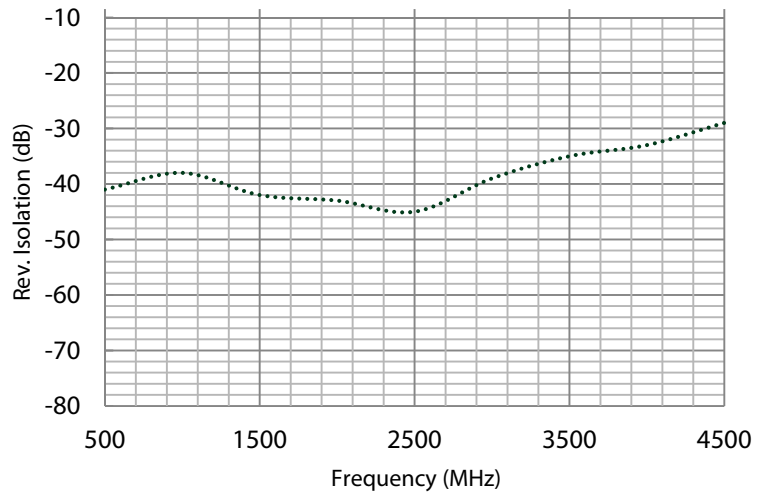
Noise Figure (dB)



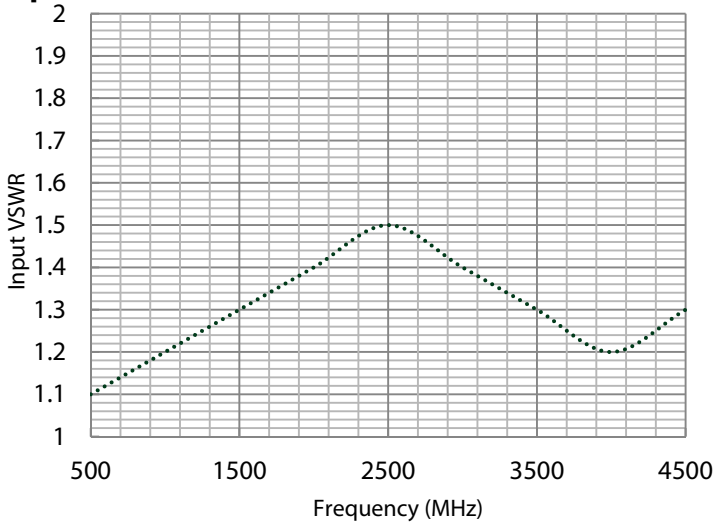
1 dB Compression (dBm)



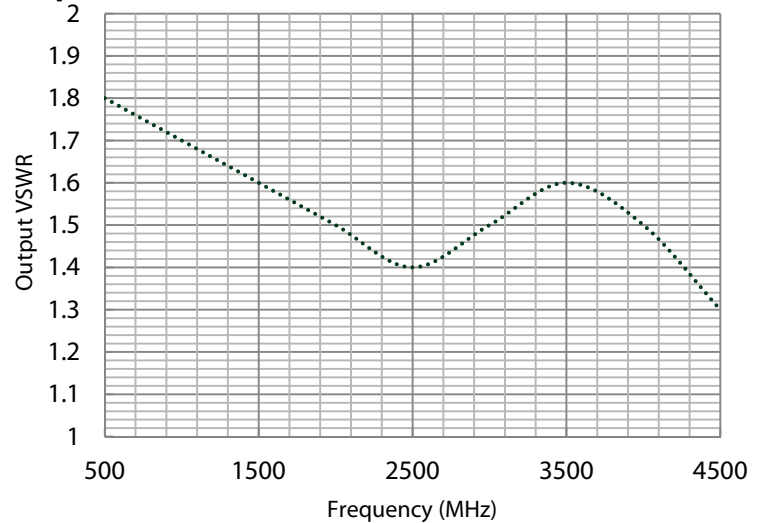
Reverse Isolation (dB)



Input VSWR

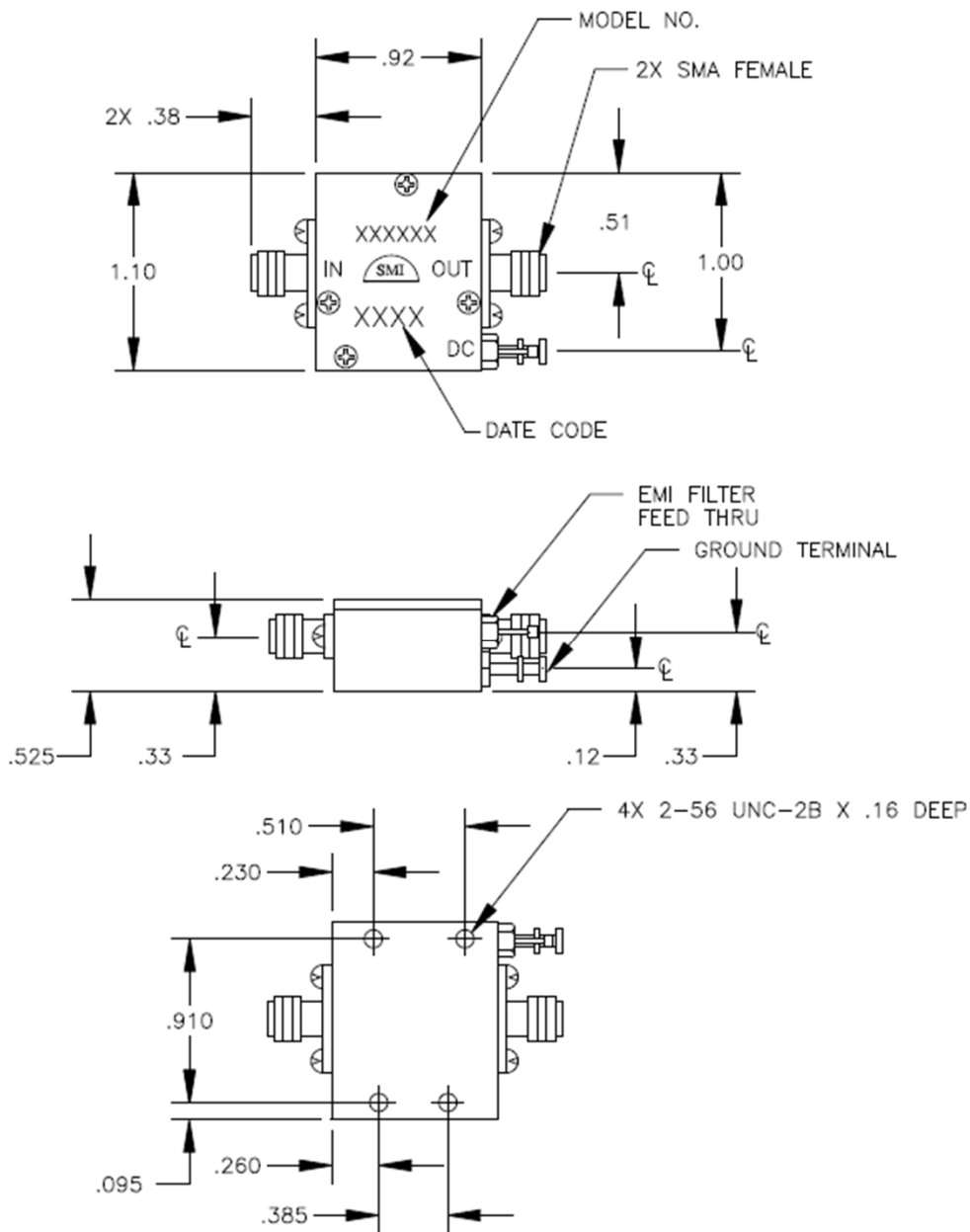


Output VSWR



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.	



BR9408