

Standard Microwave Amplifier

Frequency Range: 50 MHz to 2000 MHz

TR9067: TO8B Package (T8 package)

RN9067: 0.525" Surfacemount Package (SM19 package)

BX9067: SMA Connectorized Housing (H1L Housing)



Features

- Frequency Range: 50 MHz to 2000 MHz
- High Linearity
- Environmental Screening MIL PRF 38534 (SR9067, SRN9067)

Model TR9067 is a standard high-performance RF amplifier covering 50-2000 MHz. This chip & wire design offers guaranteed superior performance; all specification ratings are based on measurements in a 50 Ω (ohm) system with a DC supply voltage tolerance of +/- 2%.

Technical Specifications

Parameter	Unit	Typical	Min/Max
Frequency Range	MHz	50 MHz - 2000 MHz	50 MHz - 2000 MHz
Gain	dB	21.5 dB	19.5 dB
Noise Figure	dB	2.8 dB	4.2 dB
Output Power @ 1 dB Compression	dBm	+23 dBm	+22 dBm
Output 3 rd Order Intercept	dBm	+36 dBm	---
Output 2 nd Order Intercept	dBm	+62 dBm	---
Reverse Isolation	dB	-36 dB	---
Input VSWR	---	1.5:1	2.0:1
Output VSWR	---	1.6:1	2.0:1
Supply Voltage	volts	+15 volts	+15 volts
Supply Current	mA	160 mA	175 mA

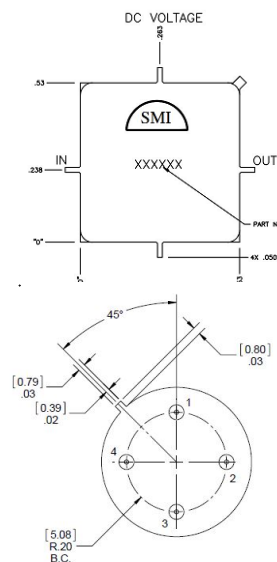
Absolute Maximum Ratings

Maximum (No Damage) Ratings	
Storage Temperature	-62°C to +125°C
Operating Temperature	-55°C to +125°C
Case Temperature	+125°C
DC Voltage @ 25°C	+ 17 volts
Continuous RF Input Power	+ 13 dBm
Short Term RF Input Power	50 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.1 Watt (3 μ sec Max.)

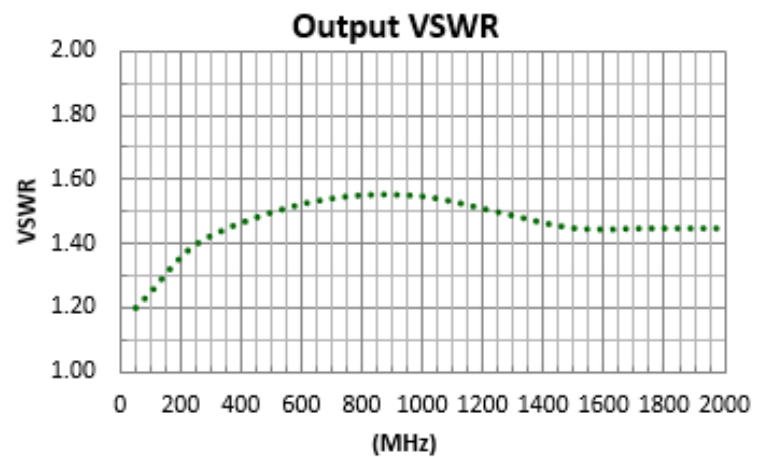
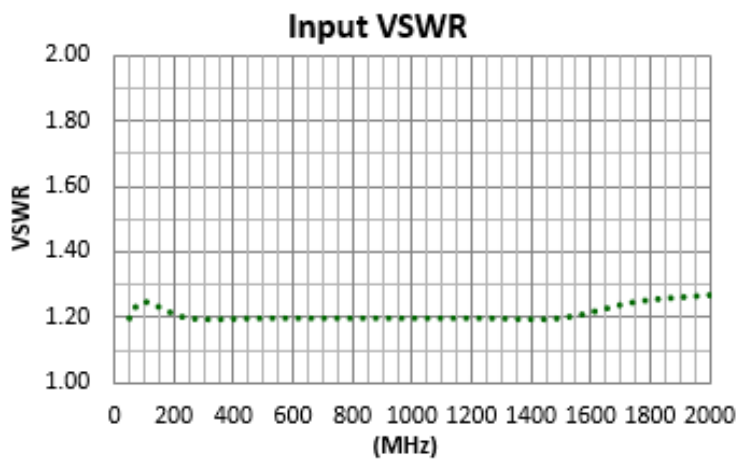
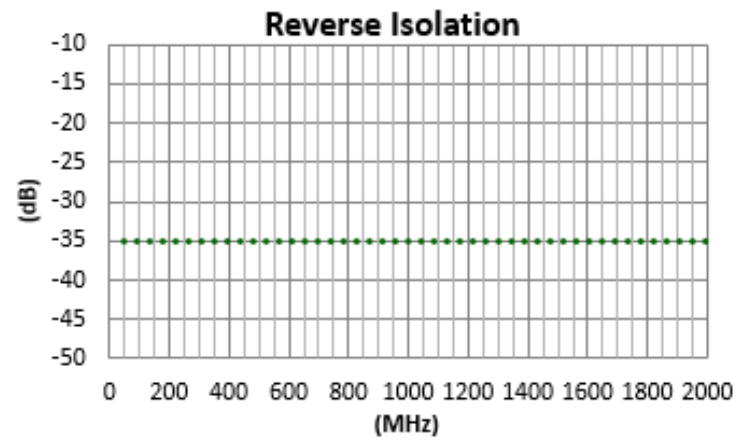
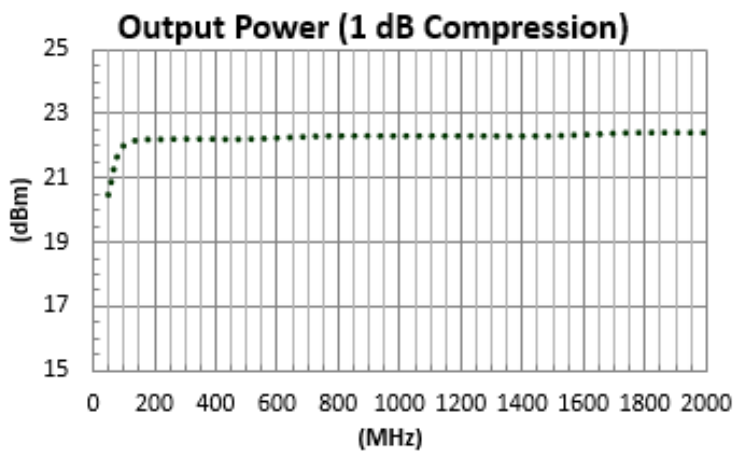
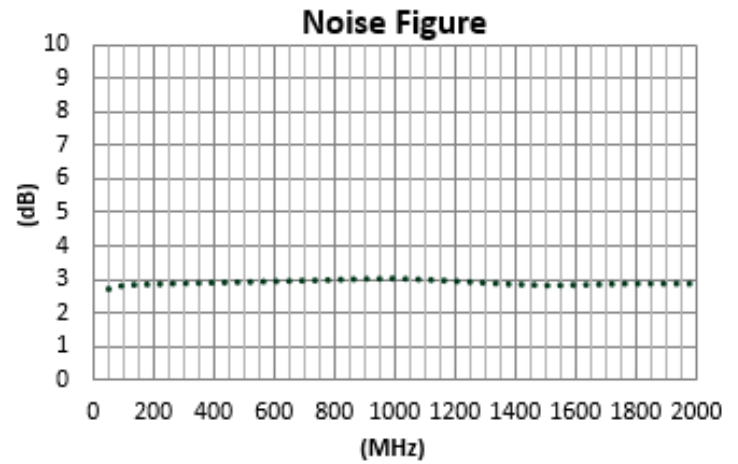
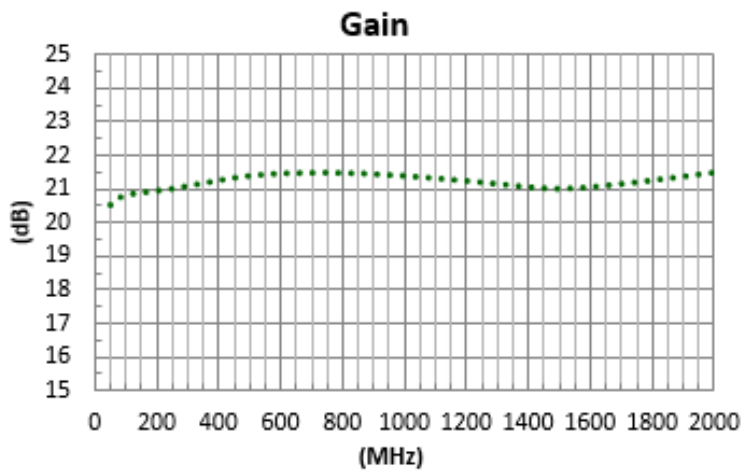
Typical values are measured at 25°C, but not guaranteed.

Mechanical & Electrical

Parameter	Specification
Specification Temperatures (Min/Max)	-55°C to +85°C
Housing Type	SMA Connectorized
Housing Drawing	H1L
RF Connectors	BX9067 (SMA Connectors)



Typical Performance Graphs



Instructions

Grounding Instructions	Care should be taken to effectively ground each unit.
Revisions	Spectrum 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)

