

RF/Microwave Amplifier



Features

- Standard +15 Volt Supply
- Low 9 kHz – 10 MHz Operation
- RoHS Compliant Option

Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -40°C to +85 °C
Frequency		9 kHz – 10 MHz	9 kHz – 10 MHz
Gain (dB)		10.5	9 Min.
Power @ 1 dB Comp. (dBm)		+3	+1 Min.
Reverse Isolation (dB)		-20	--
VSWR	In	1.8:1	2.0:1 Max.
	Out	1.8:1	2.0:1 Max.
Noise Figure (dB)		6.5	7.5 Max.
Power	Vdc	+15	+15
	mA	35	50 Max.

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point:	+35 dBm (Typ.)
Second Order Two Tone Intercept Point:	+29 dBm (Typ.)
Third Order Two Tone Intercept Point:	+19 dBm (Typ.)

Notes: Noise Figure, 1 dB Compression and Intermods are all measured at 10 MHz.

S- Parameters are measured at 300 kHz.

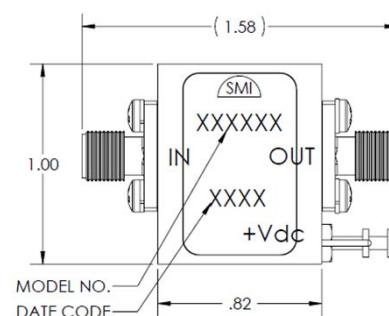
All typical parameters are tested at 25°C.

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

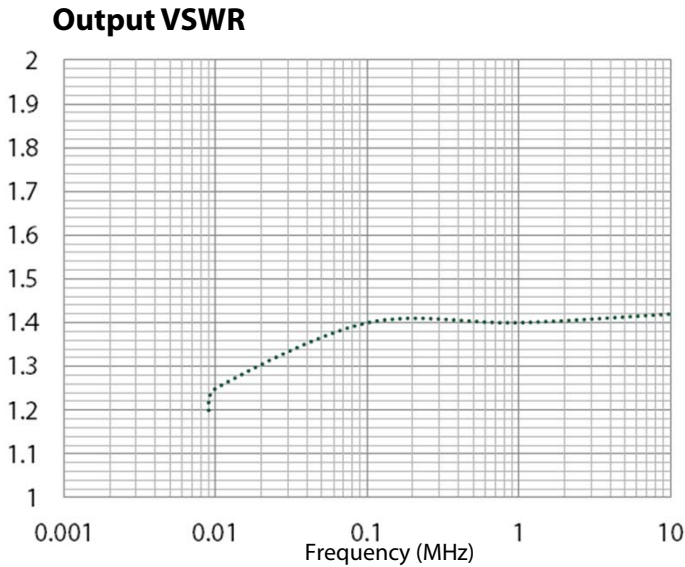
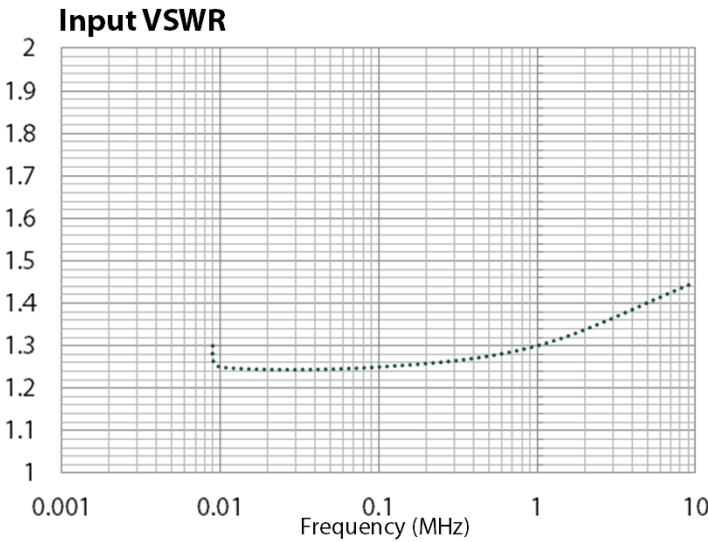
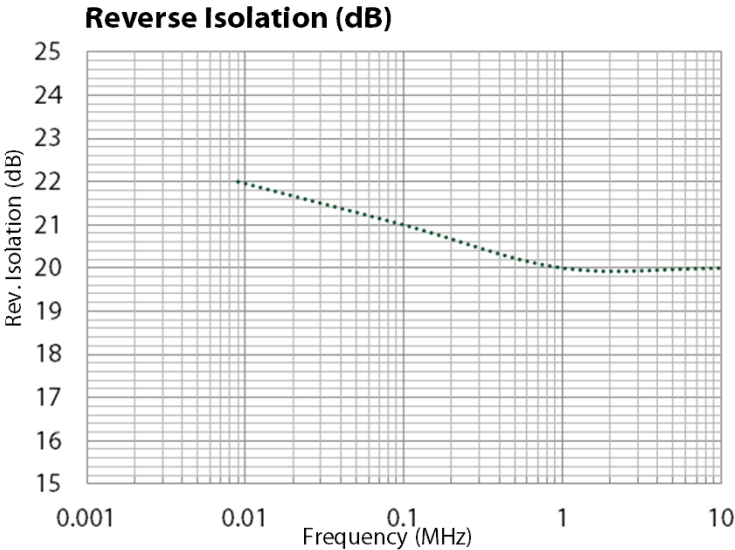
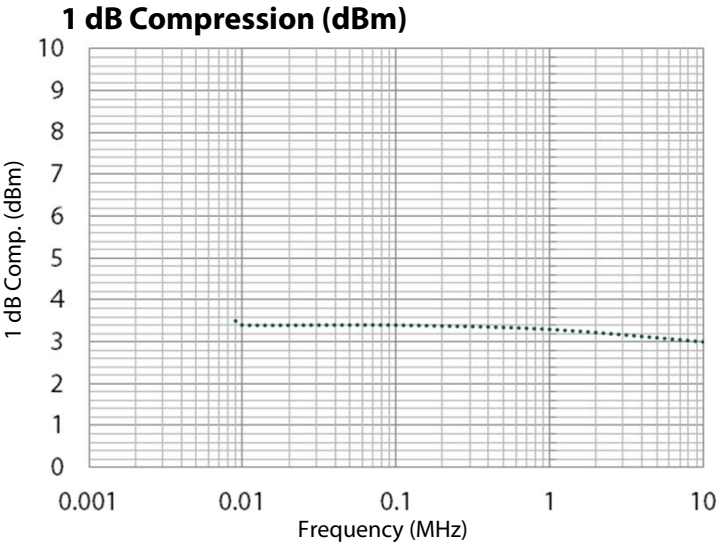
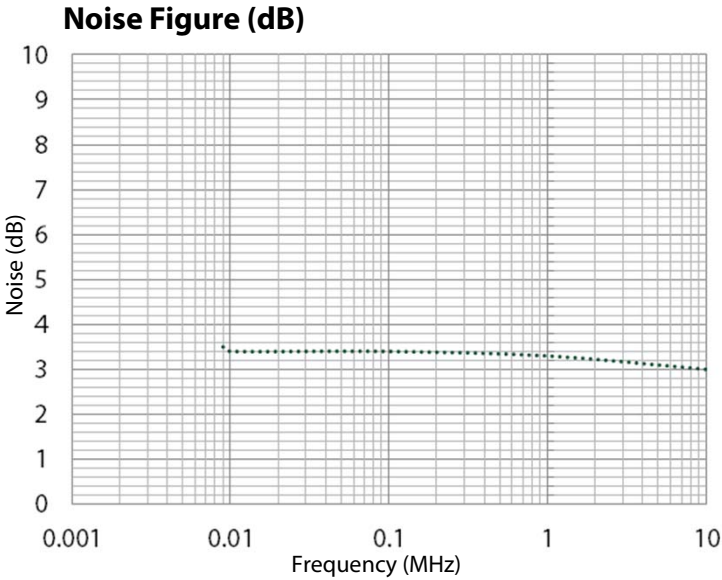
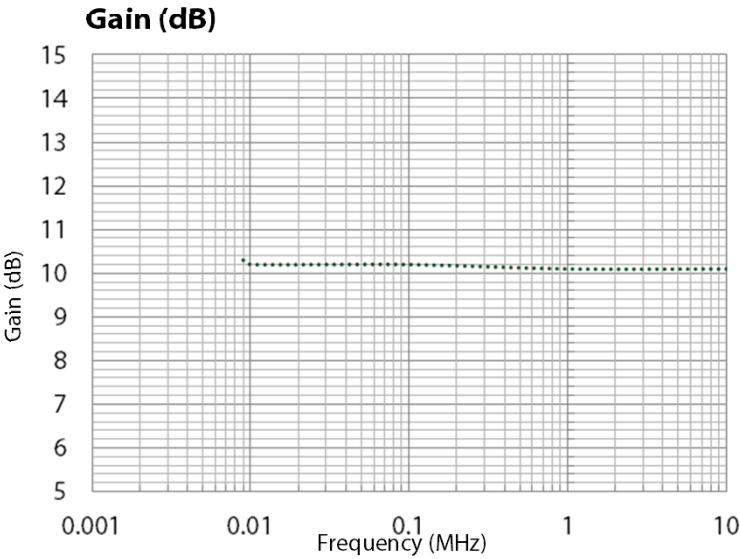
Package outlines drawings below for reference only.

Absolute Maximum (No Damage) Ratings

Operating Temperature	-55°C to +100 °C
Storage Temperature	-62°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	0.5 Watt (3 µsec Max.)



Typical Performance Graphs



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.	

1. HOUSING: 70/30 CN/NI
ELECTRONIC GRADE

