

RF/Microwave Amplifier



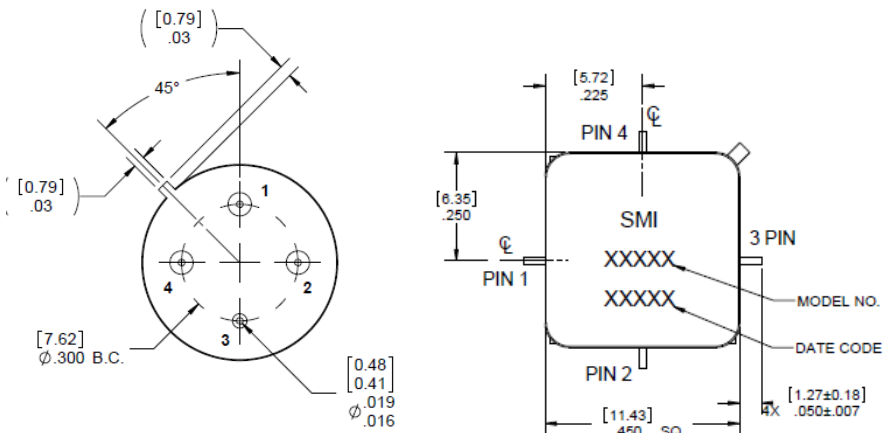
Features

- High Output Power: +21 dBm
- Environmental Screening Available
- No External Circuitry Needed

Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency		5-1000 MHz	5-1000 MHz
Gain (dB)		11.5	10 Min.
Power @ 1 dB Comp. (dBm)*		+21	+20 Min.
Reverse Isolation (dB)		-13	---
VSWR	In	1.5:1	2.0:1 Max.
	Out	1.5:1	2.0:1 Max.
Noise Figure (dB)		7.7	8.0 Max.
Power	Vdc	+15	+15
	mA	100	105 Max.

- 1) Typical values are measured at 25°C but not guaranteed.
2) Care should always be taken to effectively ground the case of each unit.
3) Package outlines drawings below for reference only.
* Output Power 1 dB lower at 1000 MHz



Typical (Output) Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point:	+47 dBm (Typ.)
Second Order Two Tone Intercept Point:	+42 dBm (Typ.)
Third Order Two Tone Intercept Point:	+32 dBm (Typ.)

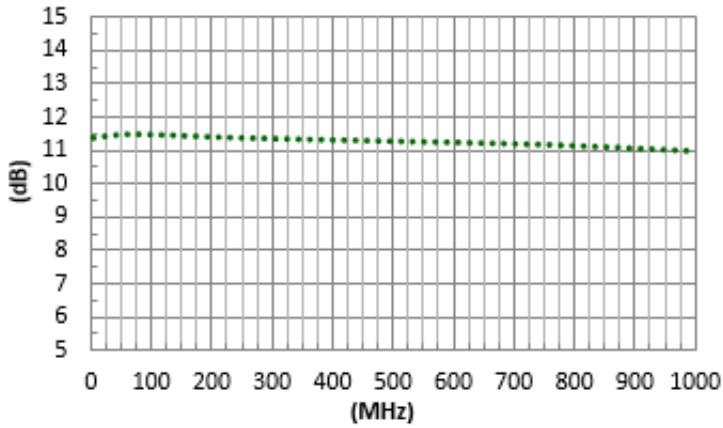
Note: Measured at 500 MHz

Absolute Maximum (No Damage) Ratings

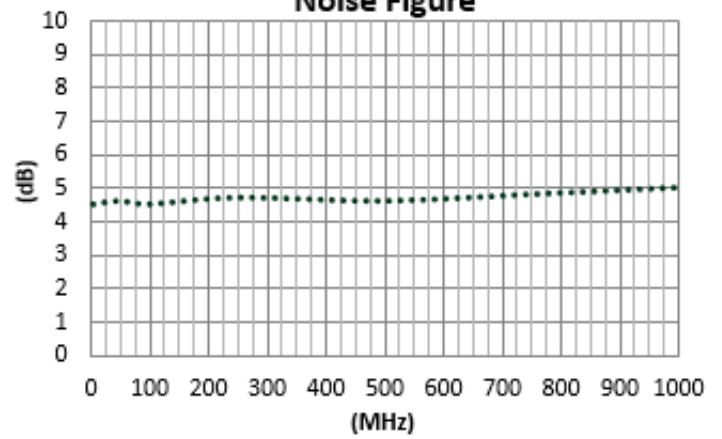
Operating Temperature	-55°C to +100 °C
Storage Temperature	-69°C to +125°C
Case Temperature	+125 °C
DC Voltage	+17 Volts
Continuous RF Input Power	+13 dBm
Short Term RF Input Power	200 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)

Typical Performance Graphs

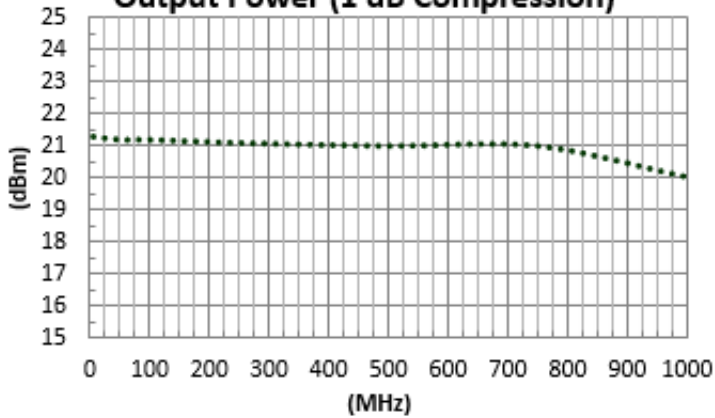
Gain



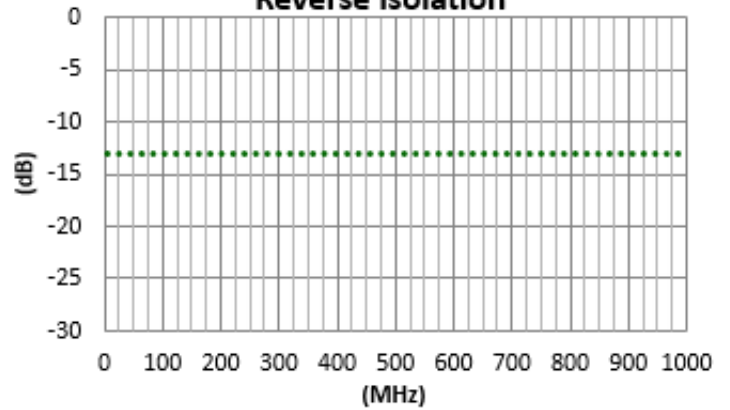
Noise Figure



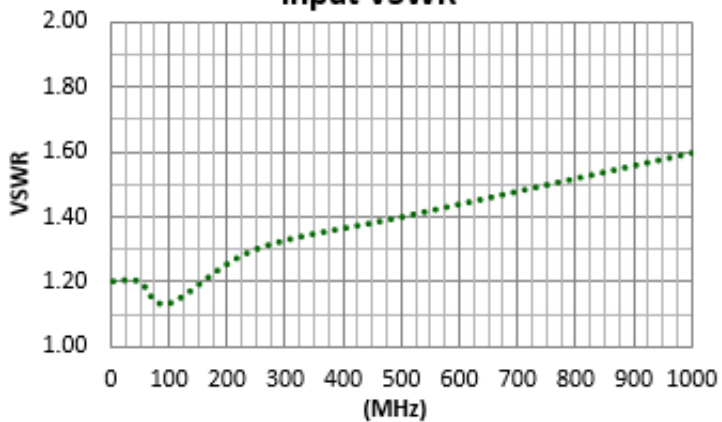
Output Power (1 dB Compression)



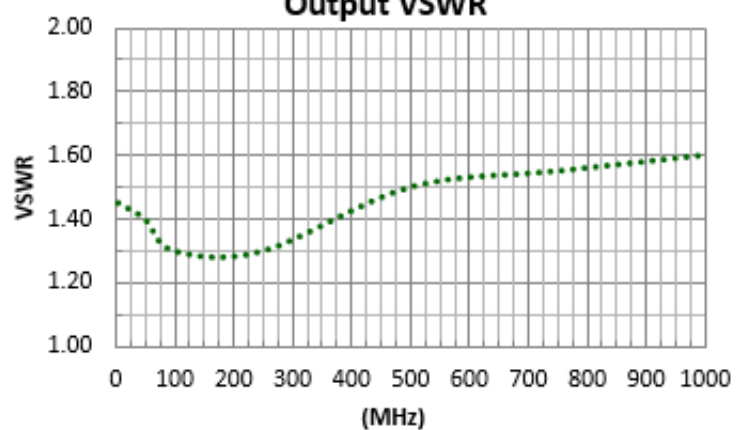
Reverse Isolation



Input VSWR



Output VSWR



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)

HOUSING: 70/30 CN/NI
ELECTRONIC GRADE

