

Standard RF/Microwave Amplifier



Features

- Low Noise Figure
- Wide 10 – 300 MHz Bandwidth
- Environmental Screening Available
- Unconditionally Stable

Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency		10 – 300 MHz	10 – 200 MHz
Gain (dB)		29.3	28.0 Min.
Power @ 1 dB Comp. (dBm)		+22.5	+21 Min.
Reverse Isolation (dB)		-36	---
VSWR	In	1.5:1	2.0:1 Max.
	Out	1.5:1	2.0:1 Max.
Noise Figure (dB)*		3.5	4.5 Max.
Power	Vdc	+15	+15
	mA	60	70 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.

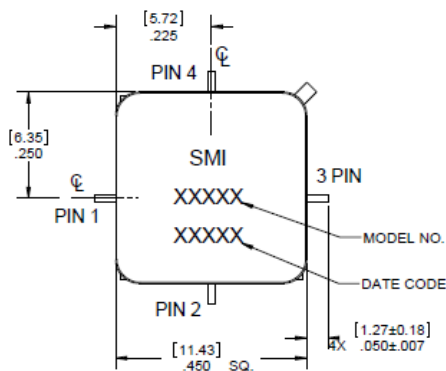
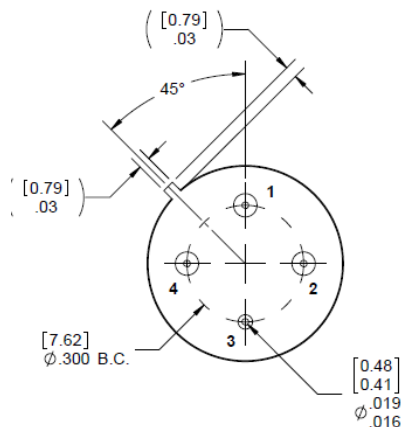
Typical Intermodulation Performance at 25 °C

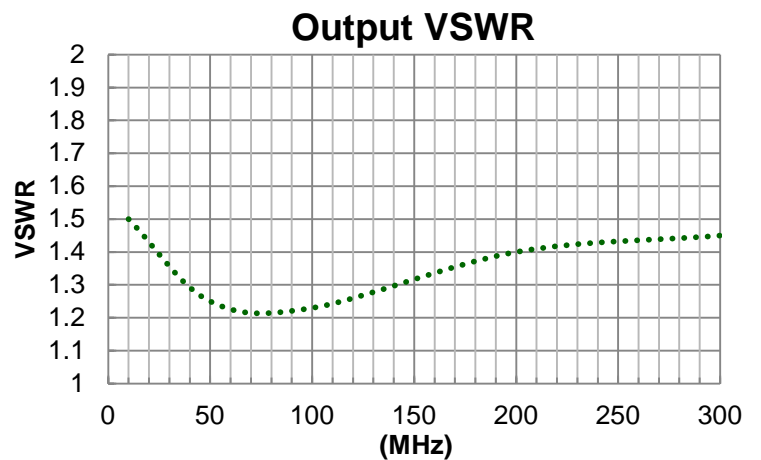
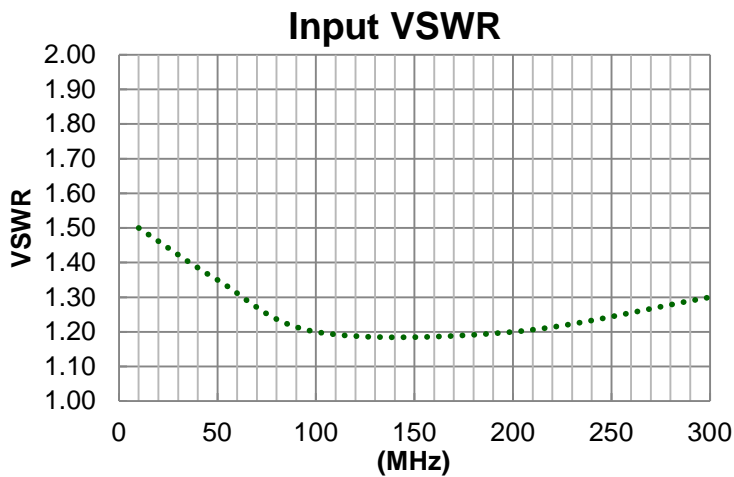
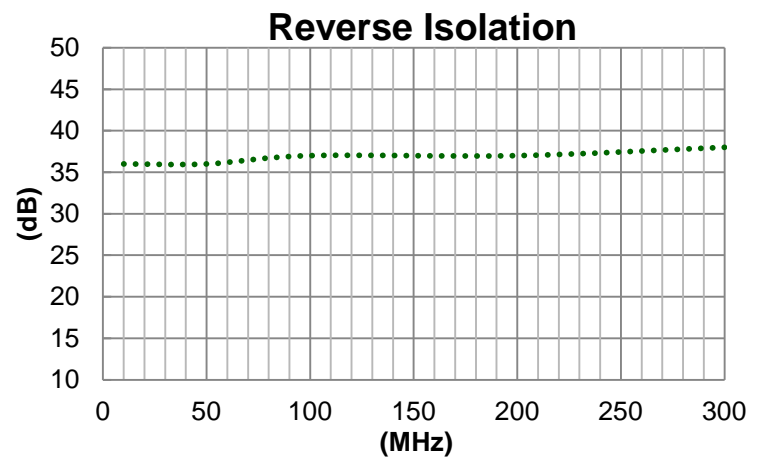
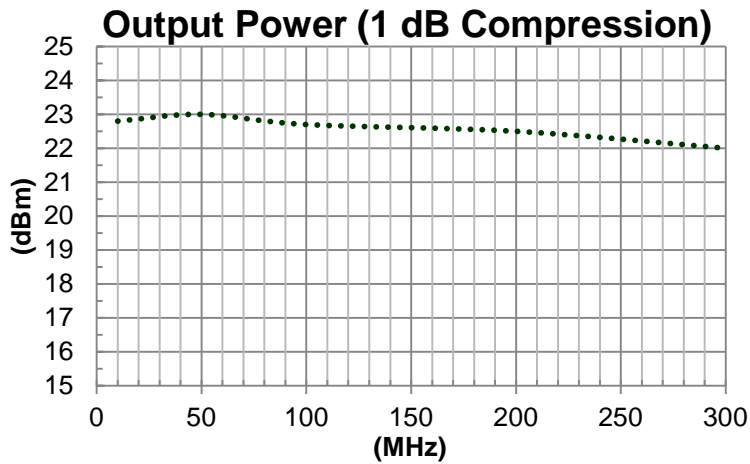
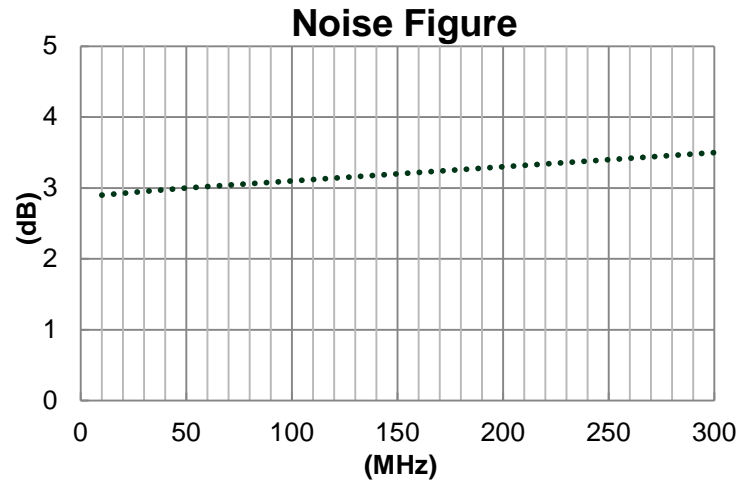
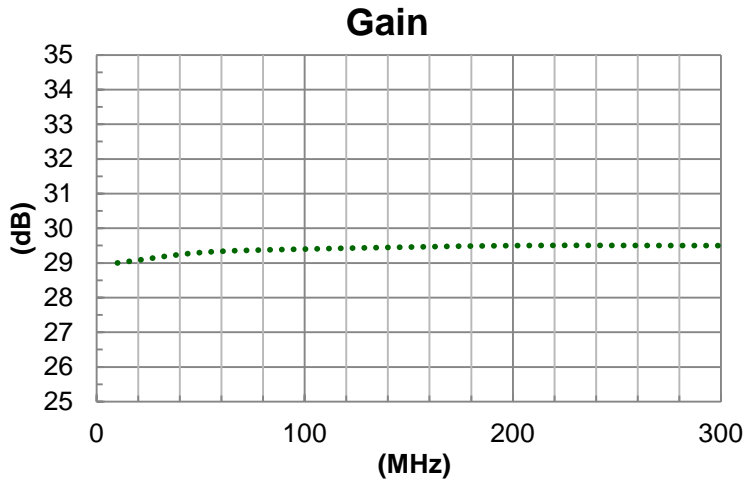
Second Order Harmonic Intercept Point:	+50 dBm (Typ.)
Second Order Two Tone Intercept Point:	+44 dBm (Typ.)
Third Order Two Tone Intercept Point:	+32 dBm (Typ.)

Note: Measured at 100 MHz at 25C.

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





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) Outlines drawings (BX7294) below are for reference only.

NOTES:

1. HOUSING: ALUMINUM
2. FINISH: NICKEL

