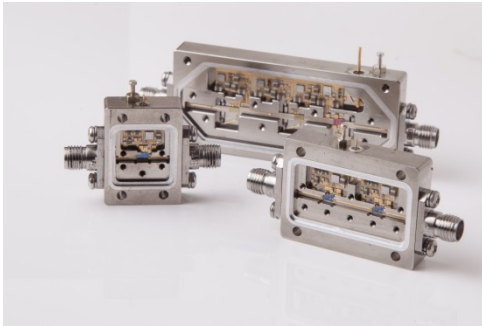


Medium Power RF Amplifier

Frequency Range: 300 MHz to 1000 MHz



Features

- Wide Bandwidth: 300 MHz -1000 MHz
- High Output Power: +33.5 dBm
- High Linearity: +60 dBm (IP2)
- No External Circuitry or Blocking Caps Required

Model BXMP1247 is a high performance medium power amplifier covering a wide 300-1000 MHz bandwidth. This design also offers excellent linearity and a laser welded housing for the ultimate in environmental protection. This standard model may also be modified or customized in order to optimize any one particular parameter). 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	300-1000	300-1000
Gain	dB	31	30
Noise Figure	dB	4.0	5.0
Output Power @ 1 dB Compression	dBm	+33.5	+33
Output 3 rd Order Intercept	dBm	45	---
Output 2 nd Order Intercept	dBm	60	---
Reverse Isolation	dB	60	---
Input VSWR	---	1.5:1	2.0:1
Output VSWR	---	1.5:1	2.0:1
Supply Voltage	volts	+15	+15
Supply Current	mA	900	950

Maximum Ratings

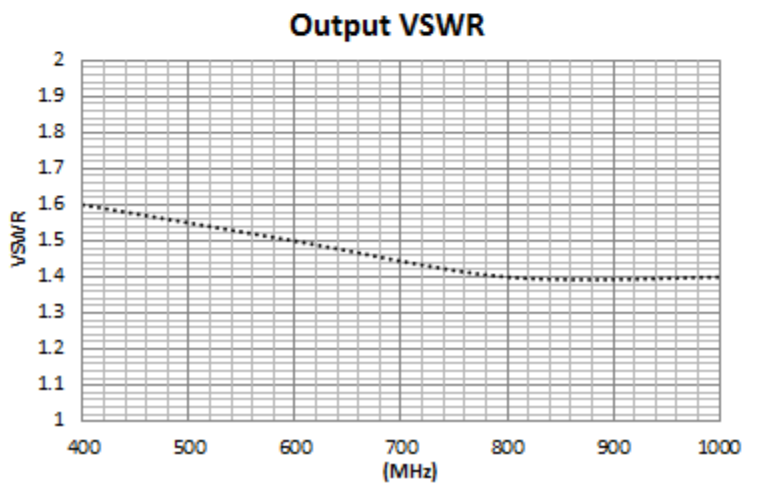
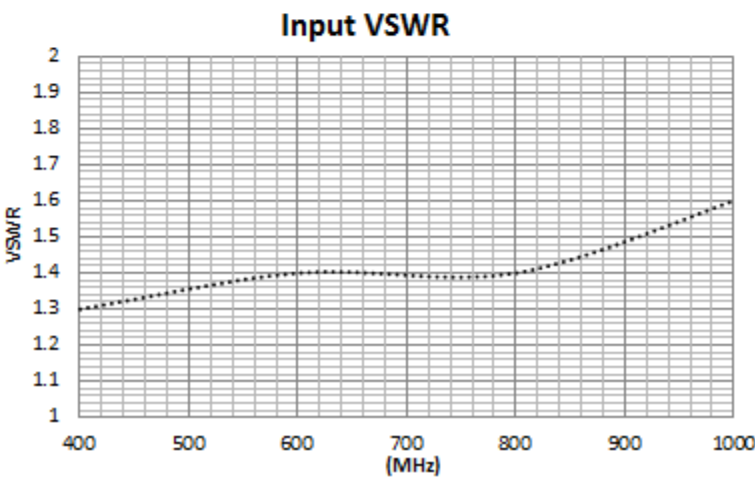
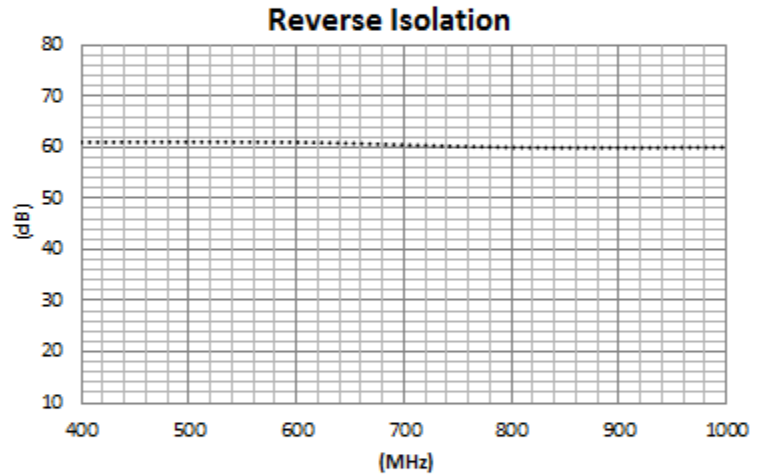
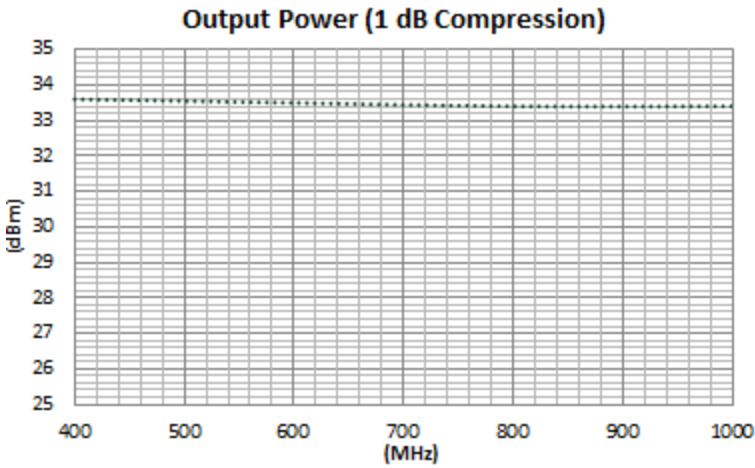
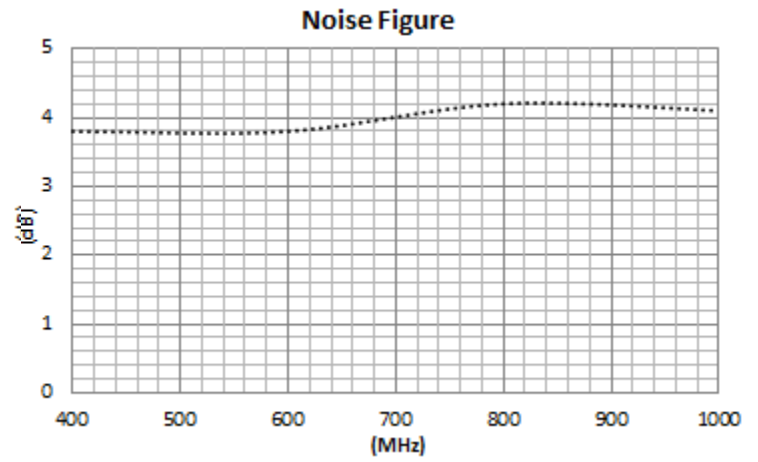
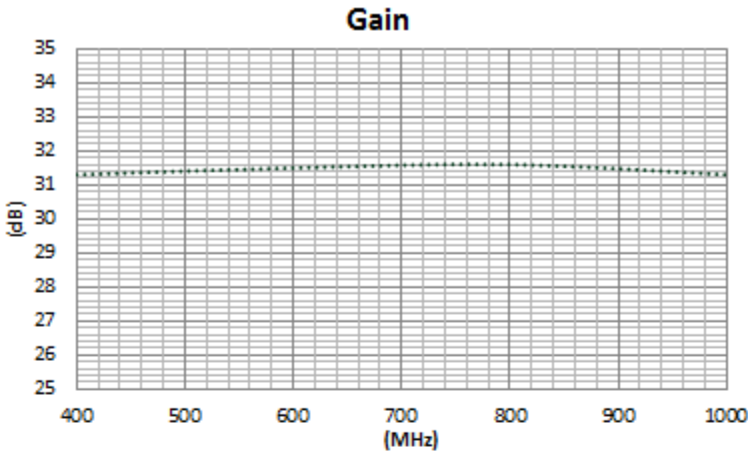
Maximum (No Damage) Ratings	
Storage Temperature	-62°C to +125°C
Operating Temperature	-40°C to +85°C
DC Voltage @ 25°C	+18 volts
Input Drive @ 25°C (CW)	+18 dBm

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

Mechanical & Electrical

Parameter	Specification
Specification Temperatures (Min/Max)	0°C to +50°C
Housing Size	1.75" L x 1.10" W x 0.52" H
Housing Drawing	SMA Connectorized

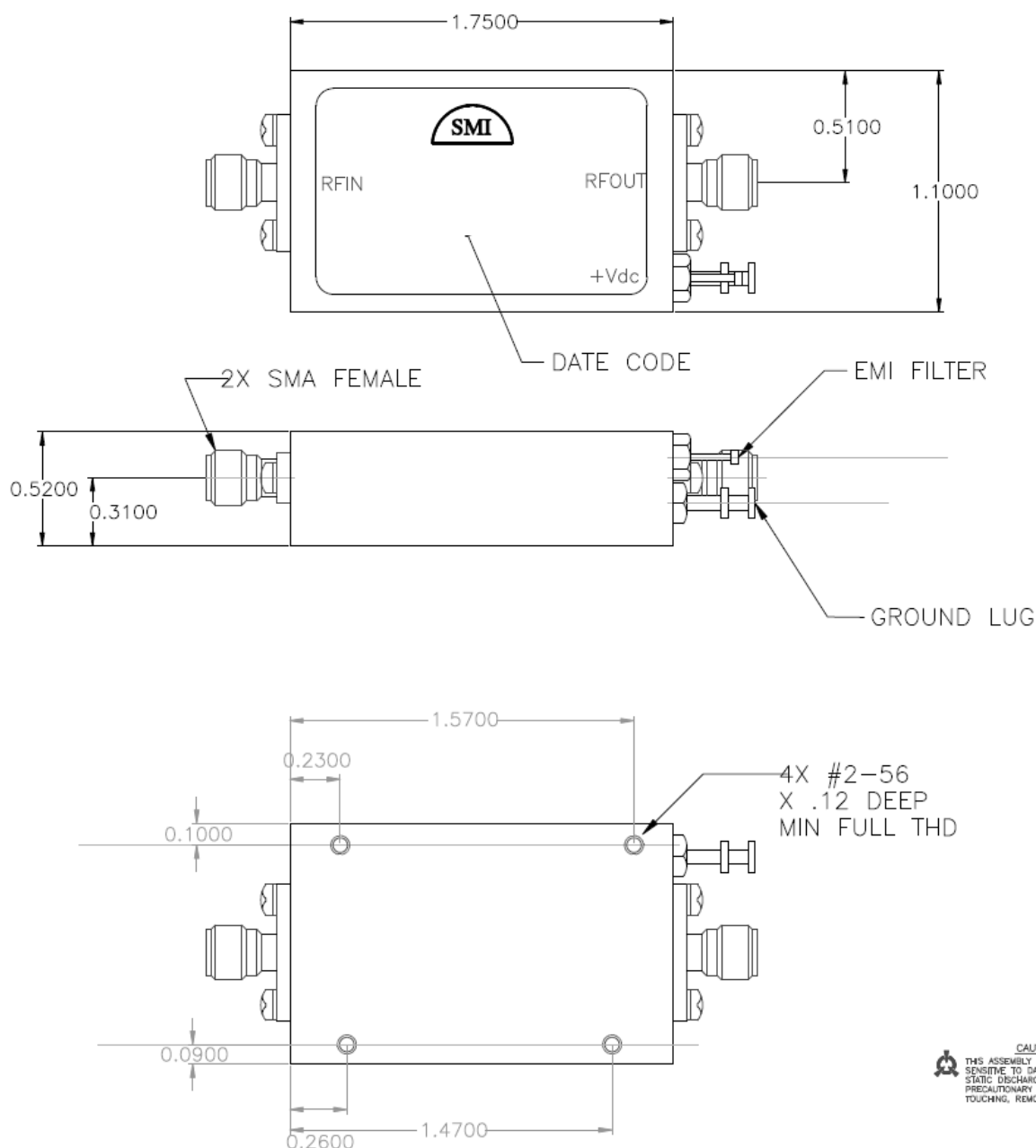
Typical Performance Graphs



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.	

Outline Drawing

(For reference only)



CAUTION
THIS ASSEMBLY CONTAINS PARTS SENSITIVE TO DAMAGE BY ELECTRO-STATIC DISCHARGE (ESD). USE ESD PRECAUTIONARY PROCEDURES WHEN TOUCHING, REMOVING OR INSERTING.