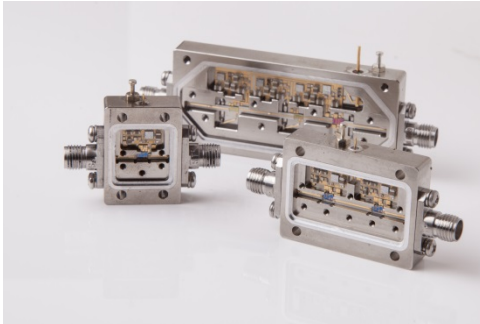


Medium Power RF Amplifier

Frequency Range: 200 MHz to 500 MHz



Features

- Ultra Low Noise Figure: 0.9 dB
- High Output Power: +29 dBm
- High Linearity: +61 dBm (IP2)
- EAR99
- Unconditionally Stable

Model BXMP1237 is a high performance medium power amplifier covering a wide 200-500 MHz bandwidth. This design also offers excellent linearity and Ultra Low Noise Performance 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	200-500	200-500
Gain	dB	42	40
Noise Figure	dB	0.9	1.5
Output Power @ 1 dB Compression	dBm	+29	+27.5
Output 3 rd Order Intercept	dBm	44	---
Output 2 nd Order Intercept	dBm	61	---
Reverse Isolation	dB	-70	---
Input VSWR	---	1.5:1	2.0:1
Output VSWR	---	1.5:1	2.0:1
Supply Voltage	volts	+15	+15
Supply Current	mA	390	425

Maximum Ratings

Maximum (No Damage) Ratings	
Storage Temperature	-62°C to +125°C
Operating Temperature	-55°C to +100°C
DC Voltage @ 25°C	+18 volts
Input Drive @ 25°C (CW)	+18 dBm

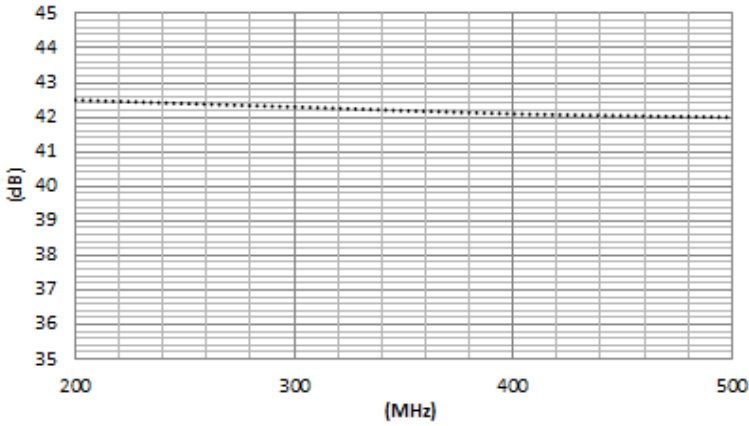
- Typical values are measured at 25°C, but not guaranteed.
- All specifications noted when measured into a 50 ohm load.

Mechanical & Electrical

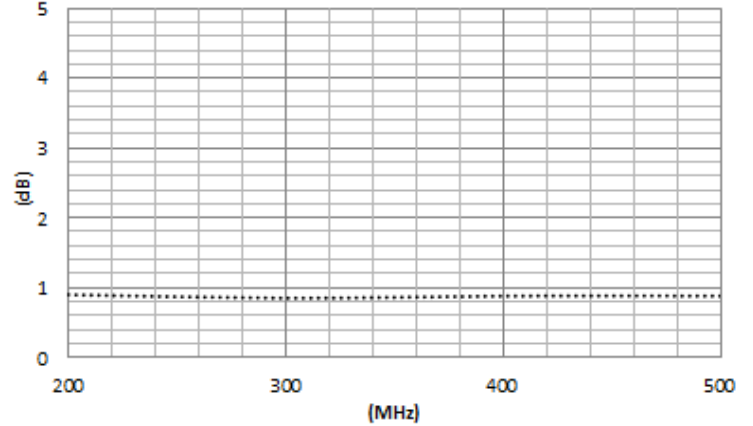
Parameter	Specification
Specification Temperatures (Min/Max)	-55°C to +85°C
Housing Size	1.36" L x 0.66" W x 0.33" H
Housing Drawing	H2L (SMA Connectorized)

Typical Performance Graphs

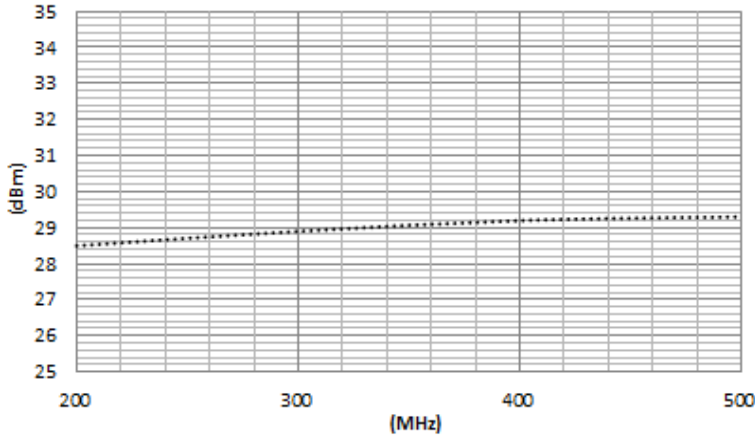
Gain



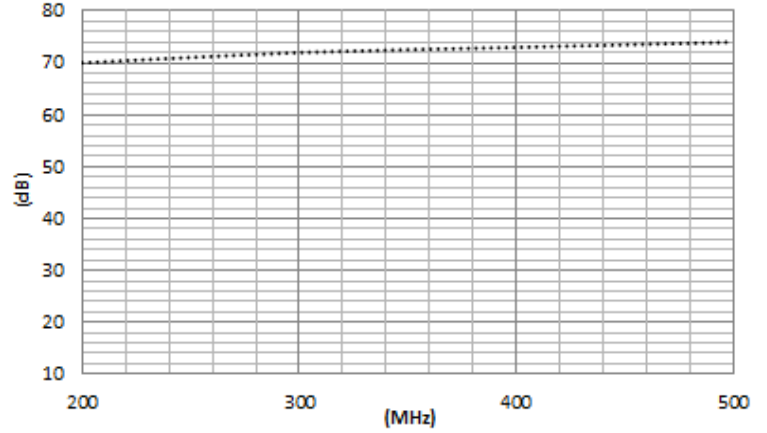
Noise Figure



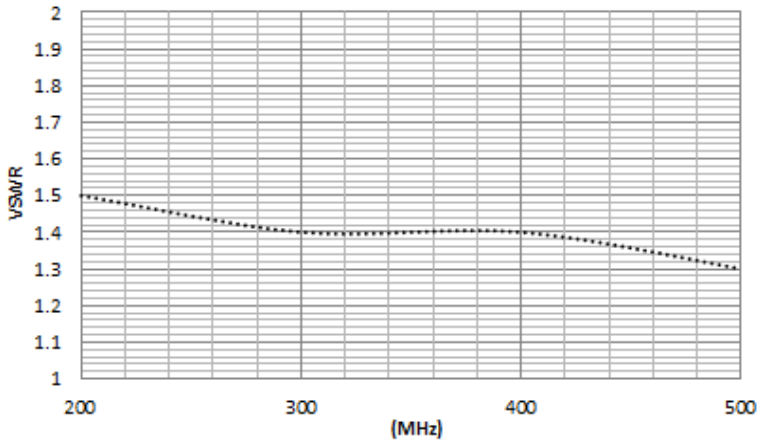
Output Power (1 dB Compression)



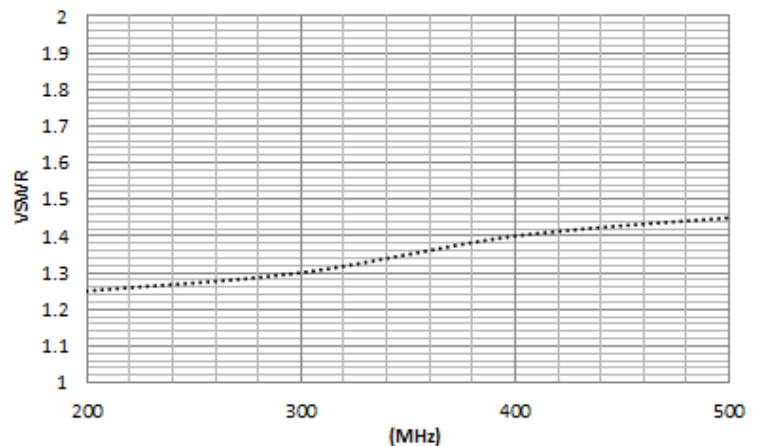
Reverse Isolation



Input VSWR



Output VSWR



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 (H2L)

(For reference only)

