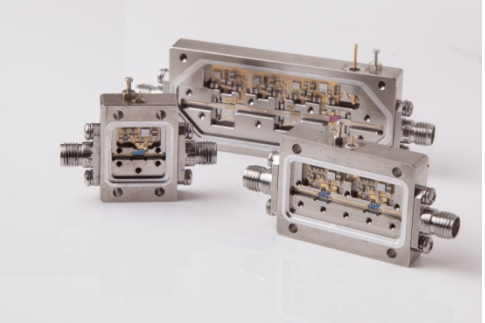
Model # BXMP1220

Medium Power RF Amplifier

Frequency Range: 50-1000 MHz



Features

- Wide Bandwidth: 50-1000 MHz
- High Output Power: +31 dBm
- High Linearity: +54 dBm (IP2)

Model BXMP1220 is a high performance medium power amplifier covering a wide 50-1000 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	50-1000	50-1000
Gain	dB	13	12
Noise Figure	dB	6.0	7.5
Output Power @ 1 dB Compression	dBm	+31	+30
Output 3rd Order Intercept	dBm	45	---
Output 2nd Order Intercept	dBm	54	---
Reverse Isolation	dB	-17	---
Input VSWR	---	1.5:1	2.0:1
Output VSWR	---	1.5:1	2.0:1
Supply Voltage	volts	+15	+15
Supply Current	mA	400	500

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

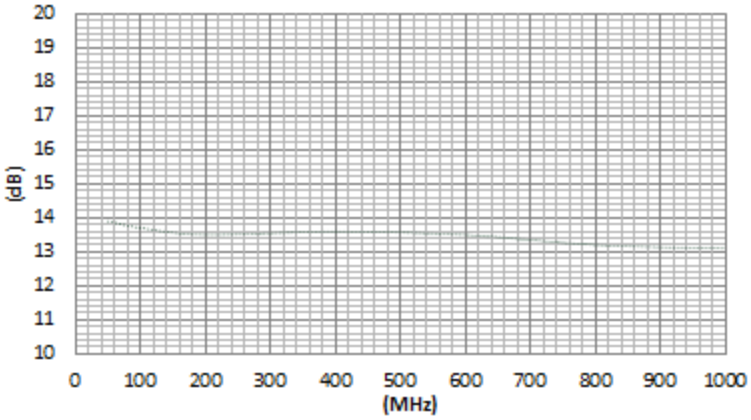
* Typical values are measured at 25°C, but not guaranteed.

Mechanical & Electrical

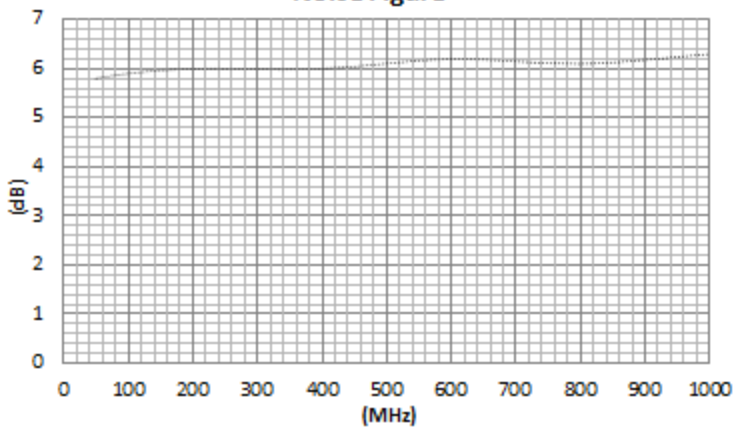
Parameter	Specification
Specification Temperatures (Min/Max)	-55°C to +85°C
Housing Size	0.820" L x 1.000" W x 0.440" H
Housing Drawing	H1L

Typical Performance Graphs

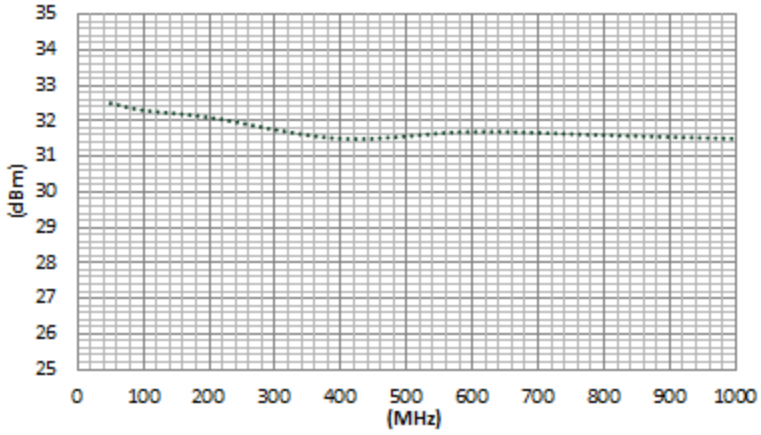
Gain



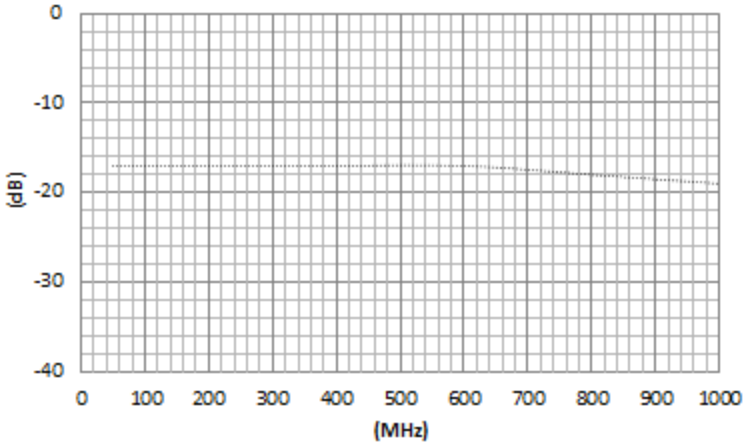
Noise Figure



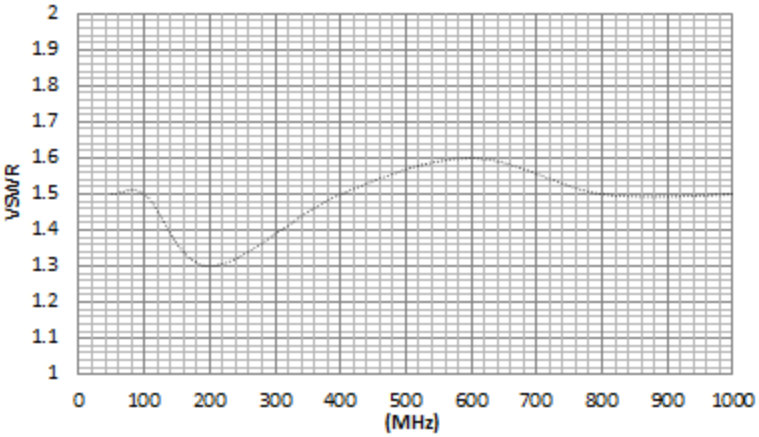
Output Power (1 dB Compression)



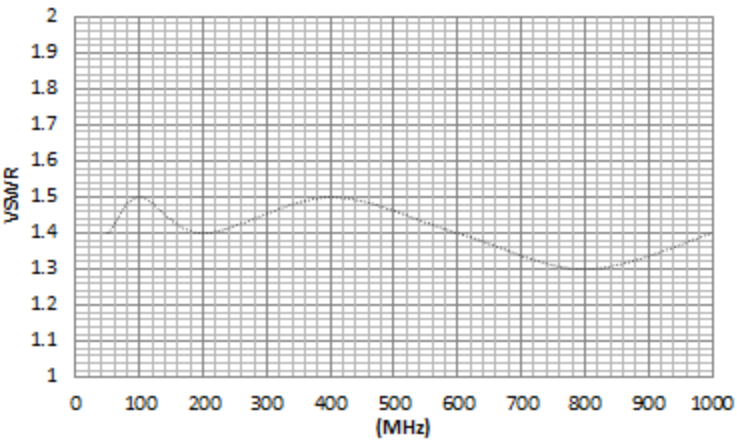
Reverse Isolation



Input VSWR



Output VSWR



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.