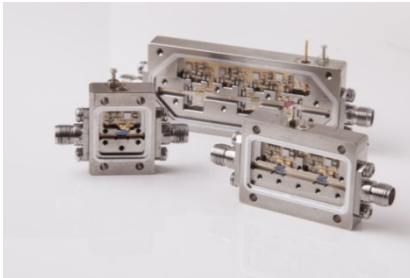


# Medium Power RF Amplifier

**Frequency Range: 300 kHz to 30 MHz**



## Features

- High Output Power
- High Linearity
- EAR99
- Unconditionally Stable

Model BXMP1257 is a high performance medium power amplifier covering a wide 300 kHz – 30 MHz bandwidth. This design also offers excellent linearity, excellent output power coupled with 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	Typical 25°C	Min/Max 0°C to +50°C
Frequency Range	300 kHz – 30 MHz	300 kHz – 30 MHz
Gain	19	18
Noise Figure (10 MHz to 30 MHz)	4.5	5.0
Output Power @ 1 dB Compression (10 MHz to 30 MHz)	+28	+27
Output 3 <sup>rd</sup> Order Intercept	---	+45
Output 2 <sup>nd</sup> Order Intercept	+70	---
Reverse Isolation	20	---
Input VSWR	1.5:1	2.0:1
Output VSWR	1.5:1	2.0:1
Supply Voltage	+15	+15
Supply Current	275	300

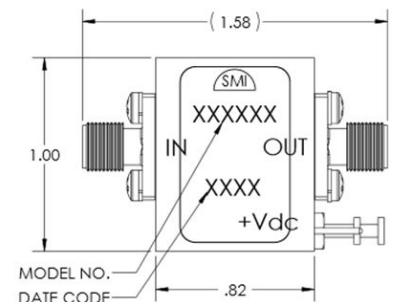
## Maximum Ratings

Maximum (No Damage) Ratings	
Storage Temperature	-62°C to +125°C
Operating Temperature	-55°C to +100°C
DC Voltage @ 25°C	+17 volts
Input Drive @ 25°C (CW)	+13 dBm

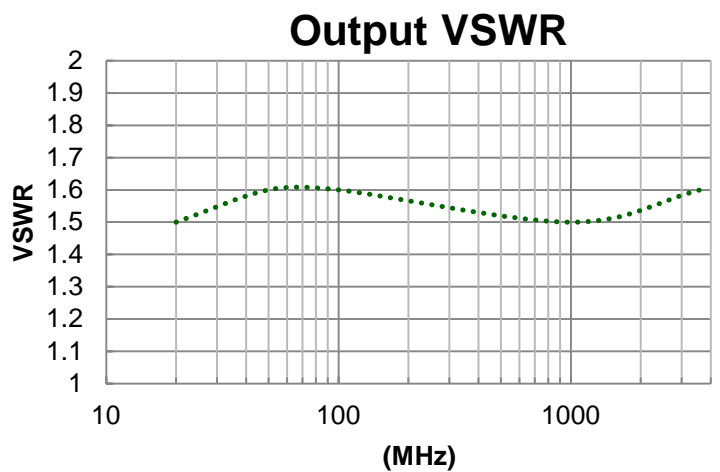
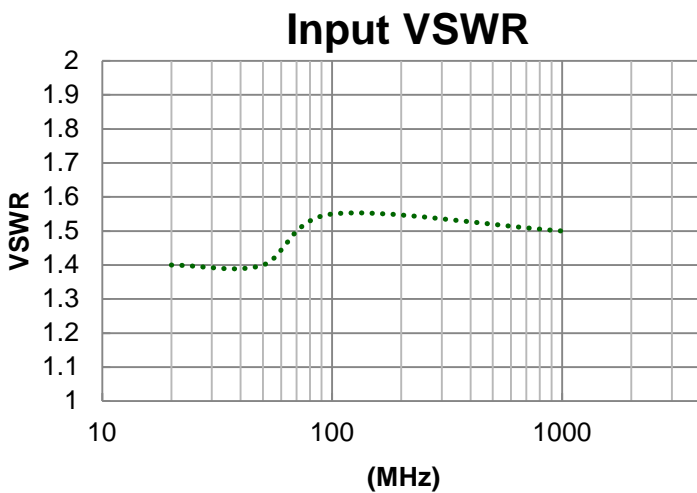
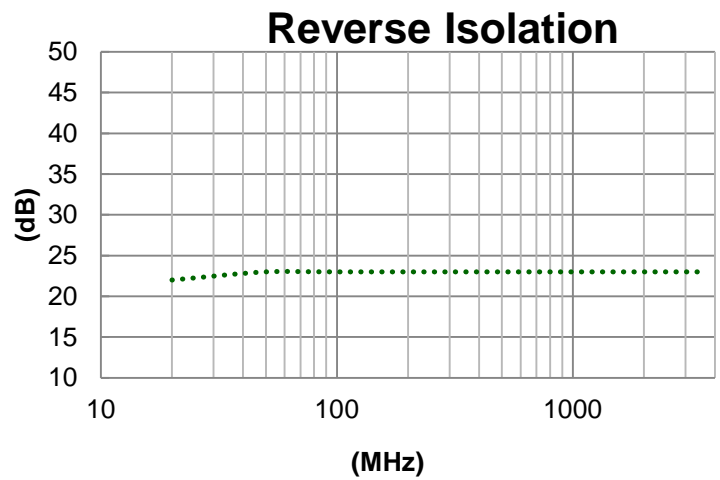
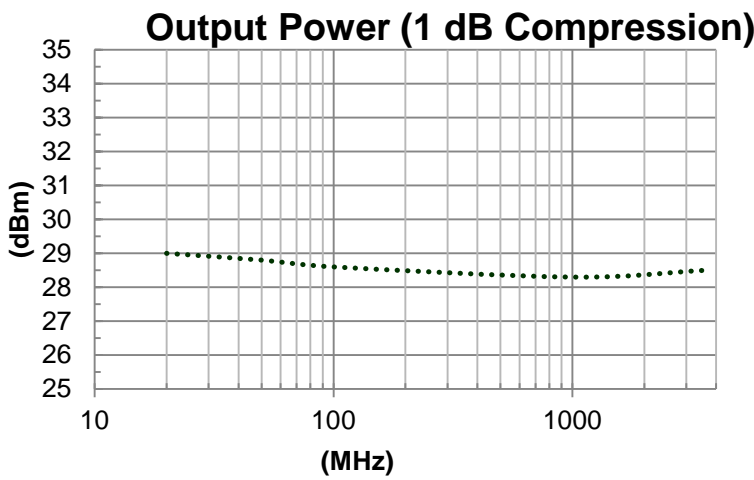
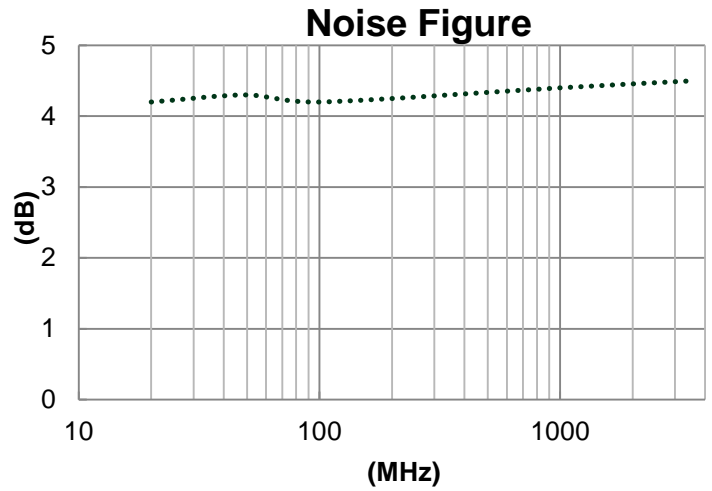
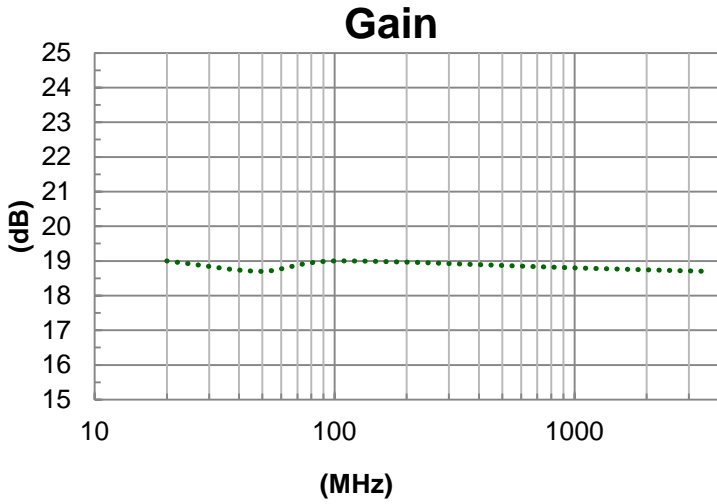
- Typical values are measured at 25°C, but not guaranteed.
- All specifications noted when measured into a 50 ohm load.
- Intermods Measured at 15 MHz

## Mechanical & Electrical

Parameter	Specification
Specification Temperatures (Min/Max)	0°C to +50°C
Housing Size	1.00" L x 0.82" W x 0.44" H
Housing Connectors	H1L (SMA Connectorized)



**Typical Performance Graphs**



**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.	

HOUSING: 70/30 CN/NI  
ELECTRONIC GRADE

