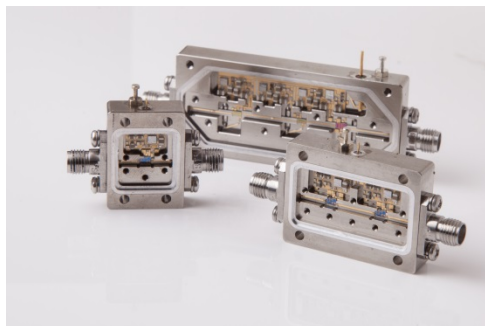


Standard RF Amplifier

Frequency Range: 750 MHz to 1250 MHz



Features

- Low Noise Figure: 3.0 dB
- Medium Output Power: 29 dBm
- 12 volt operation

Model BX7981 is a high performance amplifier covering a wide 750-1250 MHz bandwidth. This design also offers High Gain, Low Noise 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	750-1250	750-1250
Gain	dB	26	25
Noise Figure	dB	2.8	3.0
Output Power @ 1 dB Compression	dBm	+29	+27.5
Output 3 rd Order Intercept	dBm	40	---
Output 2 nd Order Intercept	dBm	55	---
Reverse Isolation	dB	39	---
Input VSWR	---	1.5:1	2.0:1
Output VSWR	---	1.5:1	2.0:1
Supply Voltage	volts	+12	+12
Supply Current	mA	500	525

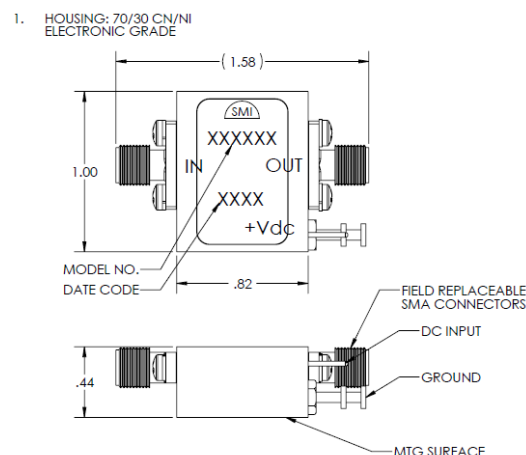
Maximum Ratings

Maximum (No Damage) Ratings	
Storage Temperature	-62°C to +125°C
Operating Temperature	-55°C to +100°C
DC Voltage @ 25°C	+15 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.

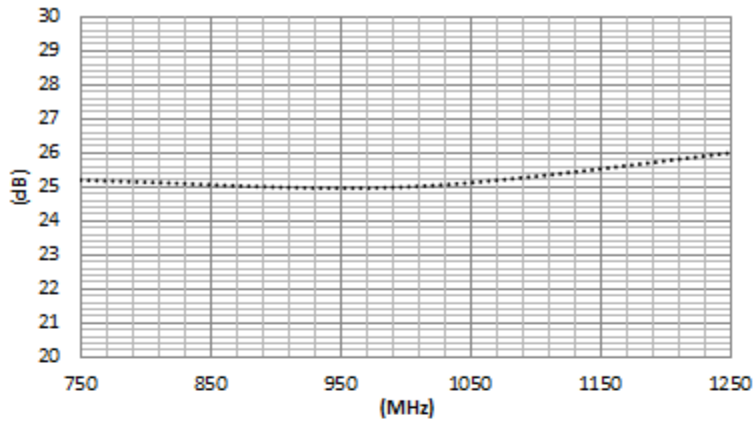
Mechanical & Electrical

Parameter	Specification
Specification Temperatures (Min/Max)	-55°C to +85°C
Housing Size	1.58" x 1.00" x 0.44"
Housing Drawing	H1L (SMA Connectorized)

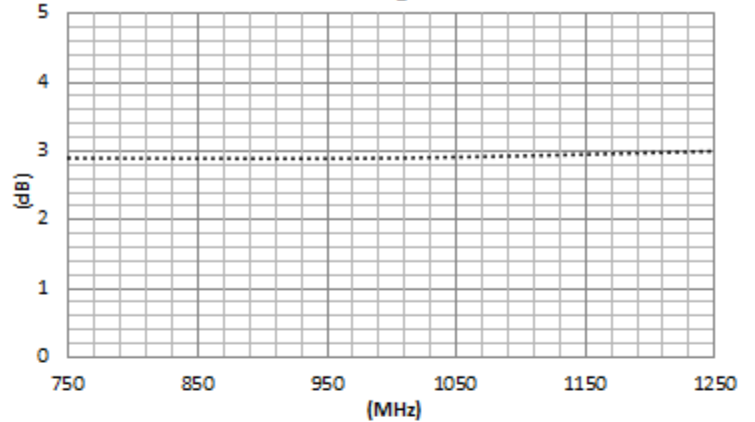


Typical Performance Graphs

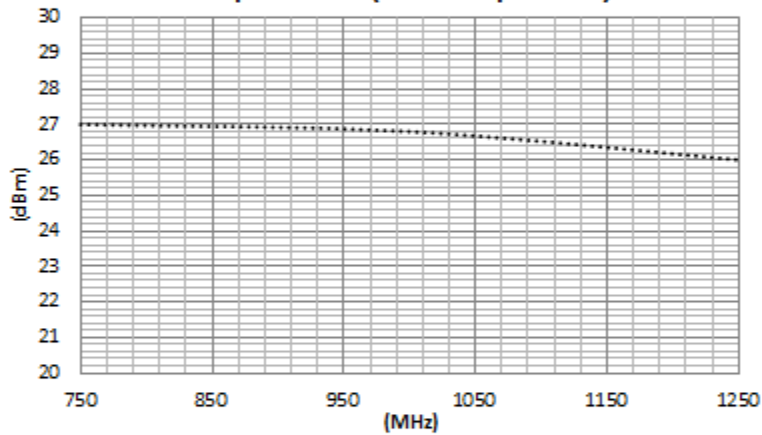
Gain



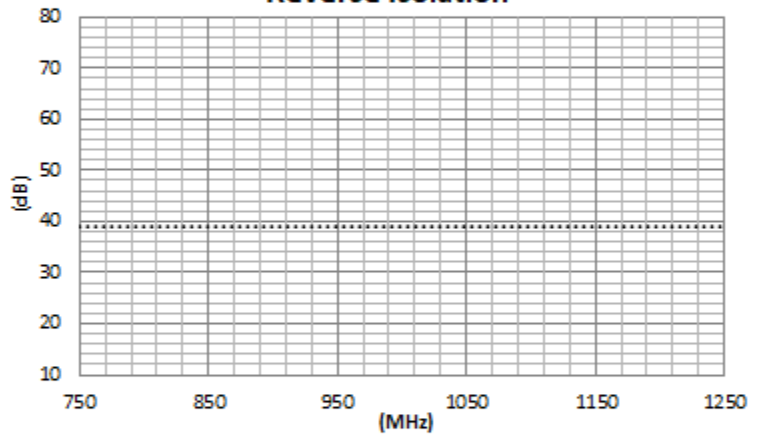
Noise Figure



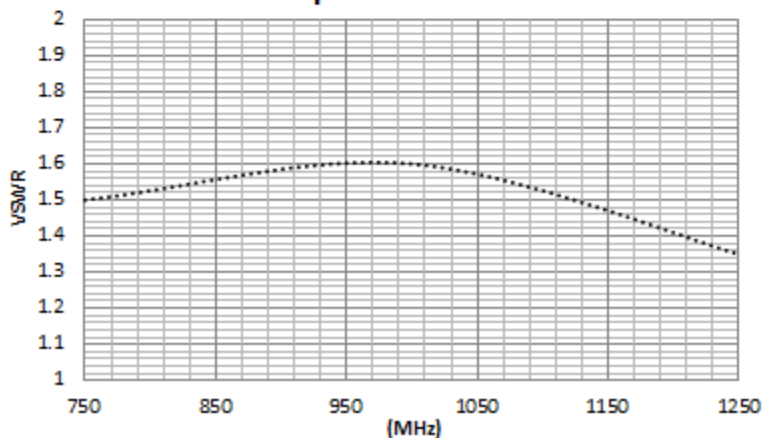
Output Power (1 dB Compression)



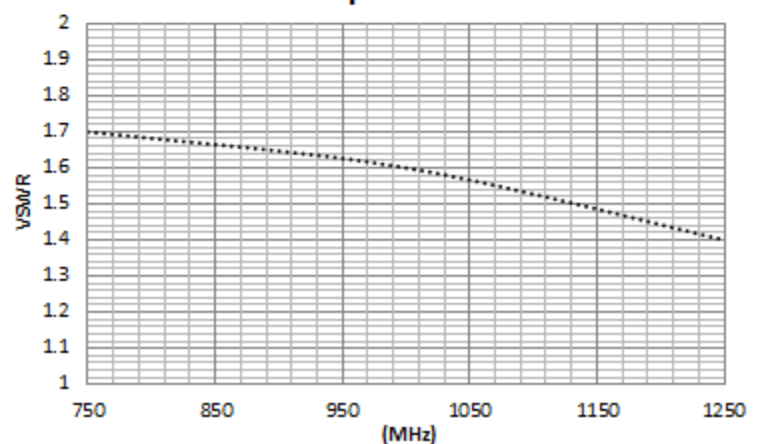
Reverse Isolation



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 (H1L)

(For reference only)

