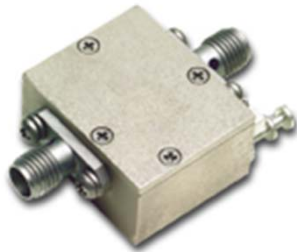


# Low Noise Microwave Amplifier

**Frequency Range: 700 to 3000 MHz**



## Features

- High Output Power: +20 dBm
- Laser Sealed Housing
- Broad Bandwidth: 700 to 3000 MHz
- Low +5 volt supply

Model BX6730 is a low noise figure amplifier covering 700 to 3000 MHz. This design utilizes a laser sealed housing for superior environmental protection. This standard design may also be ordered in a screened MIL-STD-883 version (Model SX6730). 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	Min/Max
Frequency Range	700 to 3000 MHz	700 to 3000 MHz
Gain	16.5 dB	15 dB (Min)
Noise Figure	1.6 dB	2.0 dB (Max)
Output Power @ 1 dB Compression	+20 dBm	+19 dBm (Min)
Output 3 <sup>rd</sup> Order Intercept	27 dBm	-
Output 2 <sup>nd</sup> Order Intercept	33 dBm	-
Reverse Isolation	-20 dB	-
Input VSWR	1.5:1	2.0:1 (Max)
Output VSWR	1.5:1	2.0:1 (Max)
Supply Voltage	5 volts	5 volts
Supply Current	100 mA	125 mA (Max)

## Maximum Ratings

Maximum (No Damage) Ratings	
Storage Temperature	-55°C to +85°C
Operating Temperature	-40°C to +85°C
DC Voltage @ 25°C	7 volts
Input Drive @ 25°C (CW)	+13 dBm

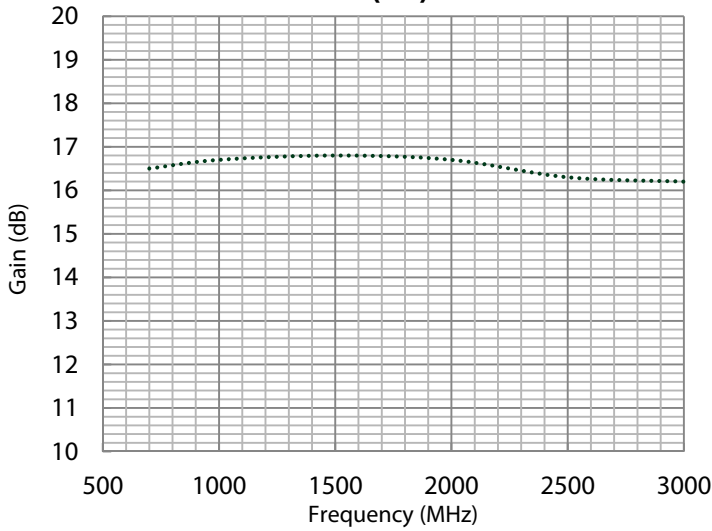
\* Typical values are measured at 25°C, but not guaranteed.

## Mechanical & Electrical

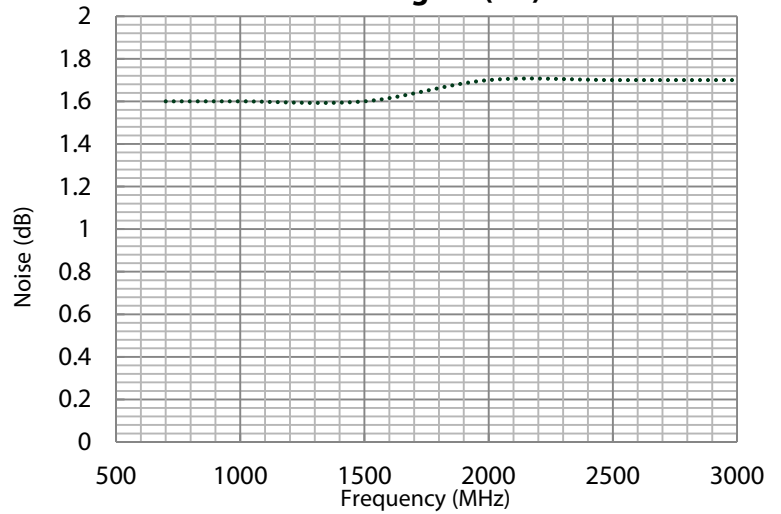
Parameter	Specification
Housing Size	1.00" x .82" w x 0.500"
Housing Drawing	H1L
RF Connectors	SMA Female Replaceable Connectors

## Typical Performance Graphs

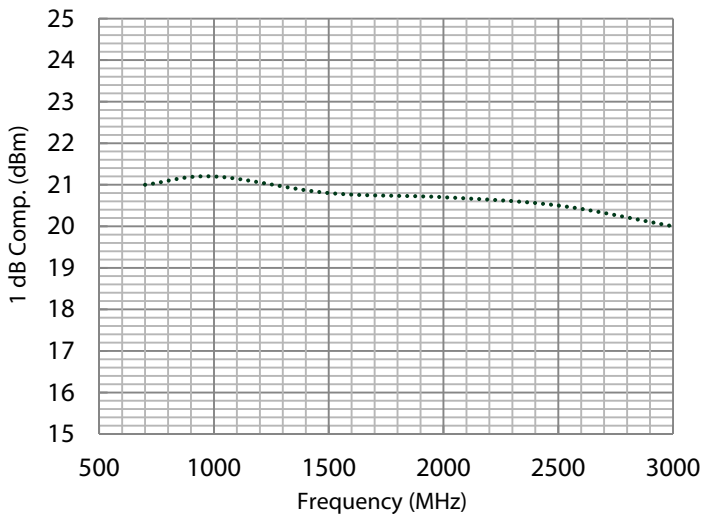
### Gain (dB)



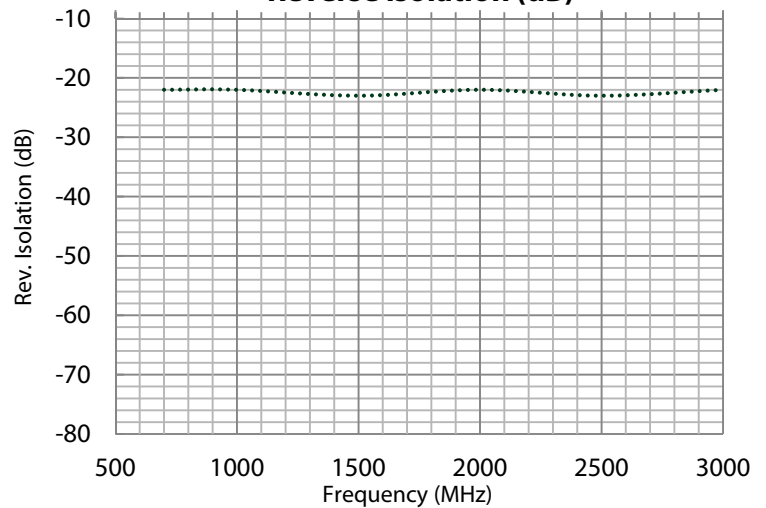
### Noise Figure (dB)



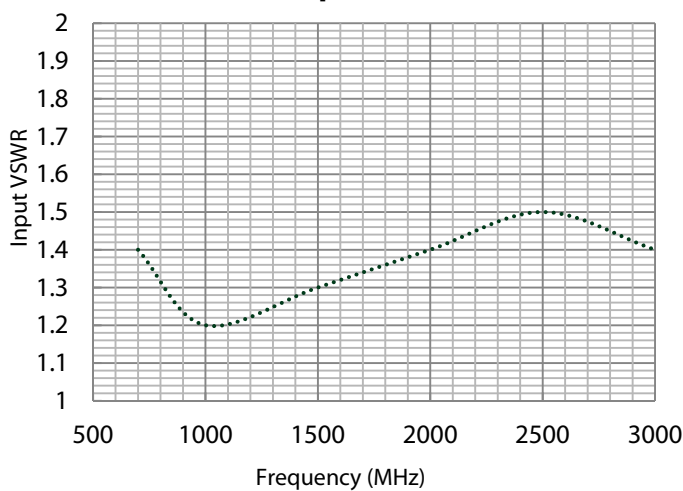
### 1 dB Compression (dBm)



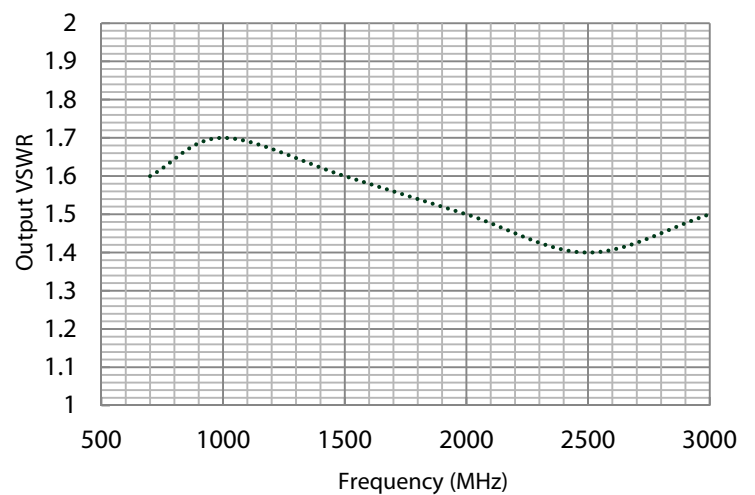
### Reverse Isolation (dB)



### 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.	

## Outline Drawing (for reference only)

