LNA, 100MHz to 30GHz

Model: **BZR-00103000-450827-202525**

Special Features

- AC coupled Input & Output
- Limiter installed at the input. Protects Amplifier from moderated level ESD in case the amplifier is installed directly to the Antenna in EMC Applications
- The limiter allows amplifier to handle +20dBm CW.

Standard Features

- Unconditionally Stable at all temperatures
- Internally Regulated DC Voltage
- Field Replaceable 2.92mm K connectors
- Excellent Group Delay and Phase Linearity
- 0.009 inches diameter RF In/Out feed through
- 3 Year Warranty

Options

- Optimized Performance over Selected Bandwidth
- Improved Gain Flatness
- Lower Noise Figure
- Improved IN and OUT VSWR
- Gain and Phase matching
- Hermetically Sealed Package

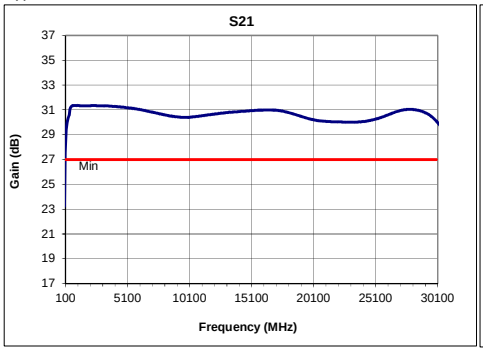
****CAUTION:** Gallium Arsenide Integrated Circuits are sensitive to electrostatic discharge (ESD) and can be damaged by static electricity. Proper ESD control techniques should be used when handling these devices.

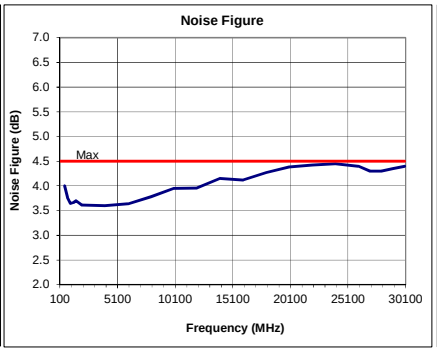
Specifications (23 °C)

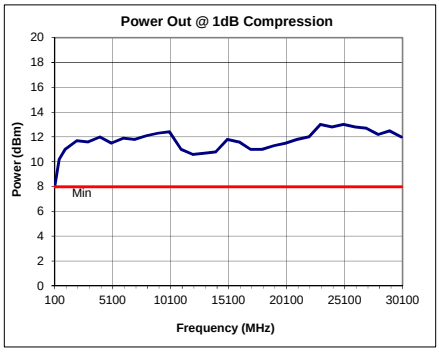
Parameter	Min	Typ	Max	Units
Frequency Range	0.1	-	30	GHz
Noise Figure*	-		4.5	dB
Gain	27	30	-	dB
Gain Flatness (+/-)	-	± 1.5	± 2.0	dB
P1 Output Power	+8	+10	-	dBm
Input VSWR	-	-	2.5:1	
Output VSWR	-	-	2.5:1	
Operating Temperature	-55	-	+85	°C
Non-Operating Temp Range	-65	-	+125	°C
RF Input Power (no-damage)	-	-	+20	dBm
Humidity (non-condensing)	-	-	95	%
Voltage	+15	+15	+15	VDC
Current	-	180		mA
Input Impedance	50			Ohms
RF Connector (IN/ OUT)	2.92mm - Female			
Dimensions	29.9 x 18.7 x 7.6			mm

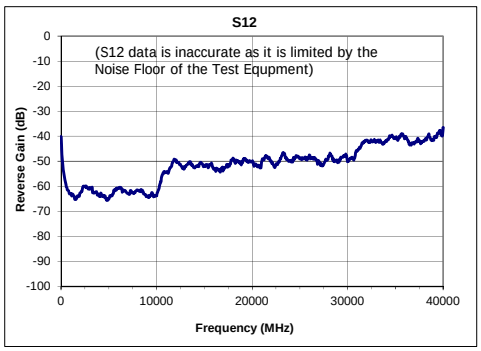
* Noise Source used for measurement from 0.1GHz to 40 GHz is HP346C-K01 .
NF Uncertainty (approx. 0.3 dB). 0.2 dB due to ENR of HP 346C-K01; and 0.1 dB, due to the gain modulation of the unit, caused by the HP 346C-K01 source impedance change in the ON and OFF state. Noise Figures and other parameters degrade below 500 MHZ. Call to discuss.

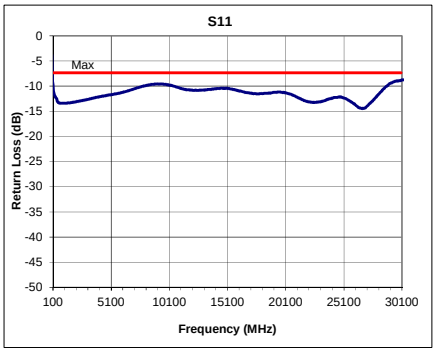
Typical Data

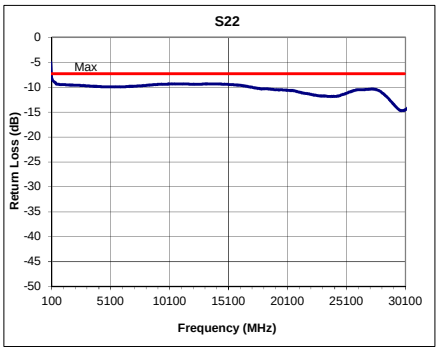












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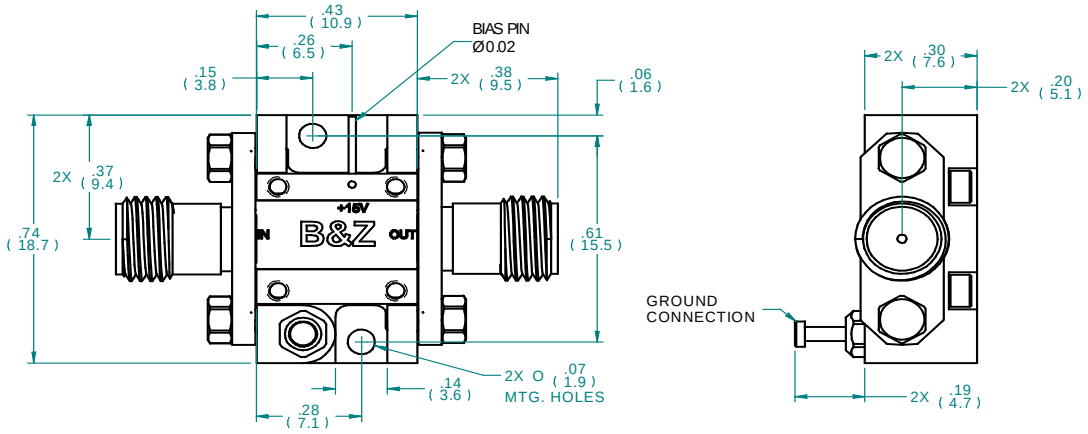
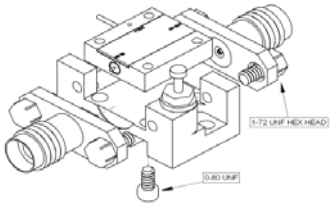


Approx. Actual Size

Mounting Drawing



Drop In