B&Z TECHNOLOGIES
INNOVATING TO EXCEL

LNA, 500MHz to 10GHz

Model: **BZY-00501000-38222024-101518**

Features

- **Noise Figure ≤ 3.8 dB**
- Unconditionally Stable at all temperatures
- Internally Regulated DC Voltage
- Internally DC blocked Input/Output
- 50 Ohm Matched Input/Output
- Field Replaceable 3.5mm SMA connectors
- Excellent Group Delay and Phase Linearity
- 0.009 inches diameter RF In/Out feed through
- Operating Temp. -55 C to +85 C
- 3 Year Warranty

Options

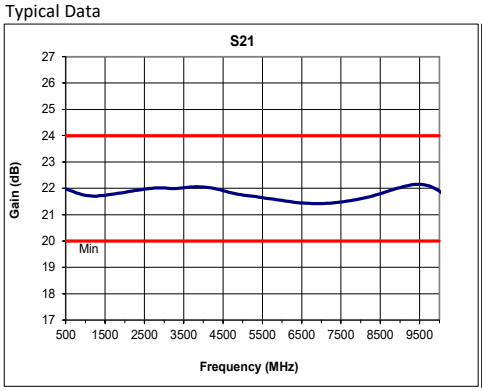
- **Optimized Performance over Selected Bandwidth**
- Hermetically Sealed Package
- Improved Gain Flatness
- Improved IN and OUT VSWR
- Gain and Phase matching
- Lower Noise Figure

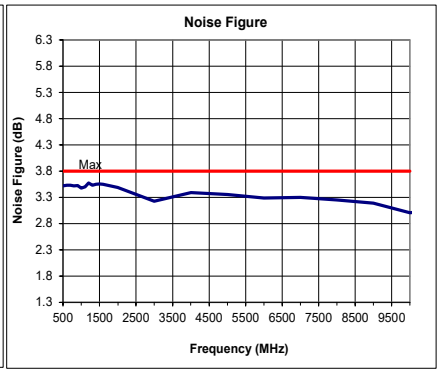
Specifications (23 °C)

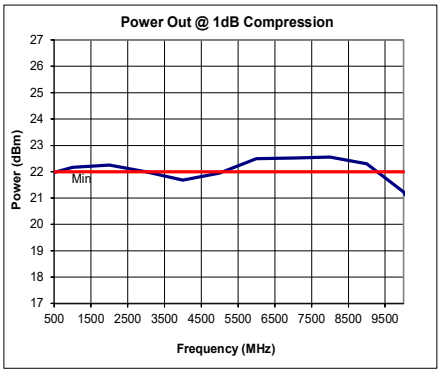
Parameter	Min	Typ	Max	Units
Frequency Range	0.5	-	10	GHz
Noise Figure*	-	3.5	3.8	dB
Gain	20	22	24	dB
Gain Flatness (+/-)	-	± 0.5	± 1.0	dB
P1 Output Power	+22	+23	-	dBm
Input VSWR	-	1.5:1	1.6:1	
Output VSWR	-	1.8:1	2.0:1	
Operating Temperature	-55	-	+85	°C
Non-Operating Temp Range	-65	-	+100	°C
RF Input Power (no-damage)	-	-	+20	dBm
Humidity (non-condensing)	-	-	95	%
Voltage	+12	+12	+20	VDC
Current	-	145		mA
Input Impedance	50			Ohms
RF Connector	3.5mm SMA - Female			
Dimensions	29.9 x 18.7 x 7.6			mm

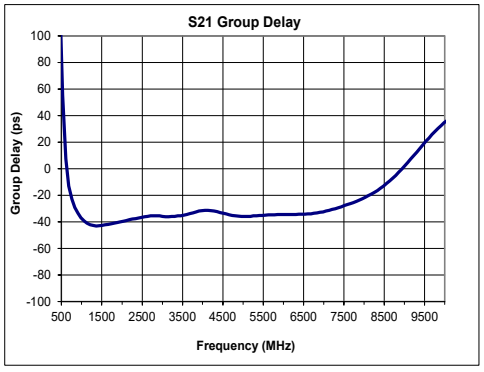
* Noise Source used for measurement from 0.01 to 26.5 GHz is HP346C
NF Uncertainty (approx. 0. 1dB). 0.05 dB due to ENR of HP 346C; and 0.05 dB due to the gain modulation of the unit caused by the HP 346C source impedance change in the ON and OFF state
There is a limiter installed at the input of the amplifier. The limiter protects the amplifier from lELECTRONIC STATIC DISCHARGE. The limiter also allows the amplifier to to handle upto +20 dBm CW power with no damage

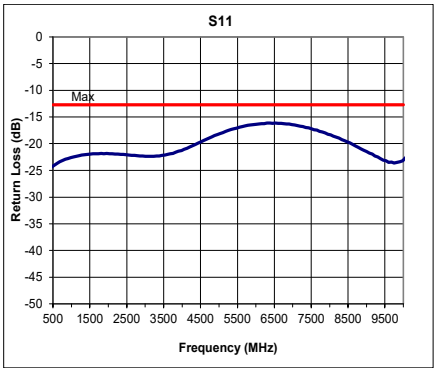
Typical Data

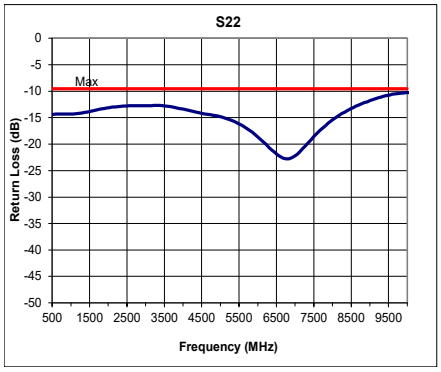












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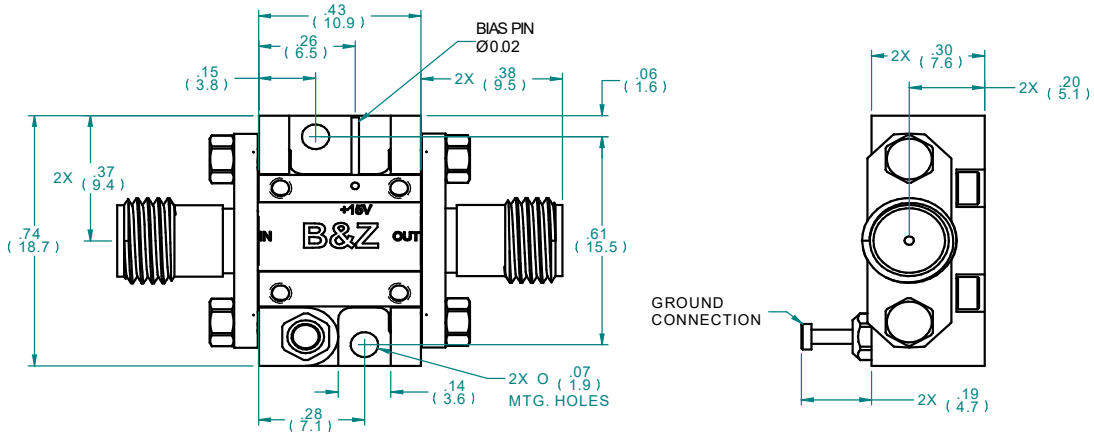
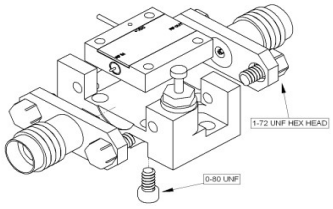


Approx. Actual Size

Mounting Drawing



Drop In