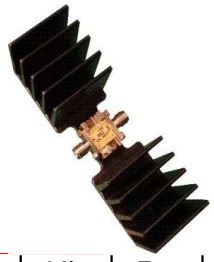
B&Z TECHNOLOGIES
INNOVATING TO EXCEL

LNA, 0.1 to 16GHz

Model: BZ-00101600-221040-252020-HS



Description

This is a low-noise amplifier,
operating in the bandwidth **0.1 to 16 GHz.**

Features

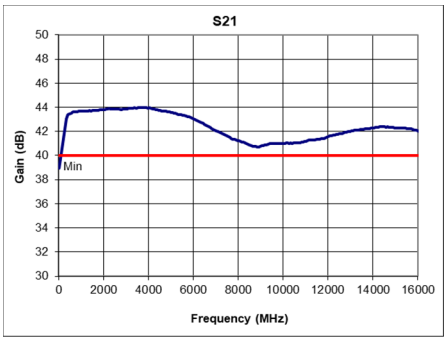
- **Noise Figure ≤ 2.2 dB**
- Limiting Diode Protection against moderate ESD
- Mounted on Heatsink
- AC coupled at input and output
- Internally Regulated DC Voltage
- 50 Ohm Matched Input/Output
- Field Replaceable 3.5mm SMA connectors
- Excellent Group Delay and Phase Linearity
- 0.009 inches diameter RF In/Out feed through
- Operating Temp. -55 C to +85 C
- 3 Year Warranty and Lifetime Support

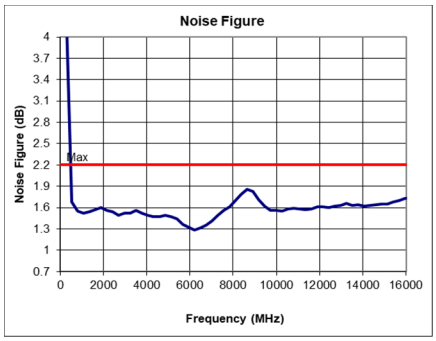
- **Optimized Performance over Selected Bandwidth**
- Hermetically Sealed Package
- Reverse Polarity Protection
- Gain and Phase matching
- Male or Female Connectors

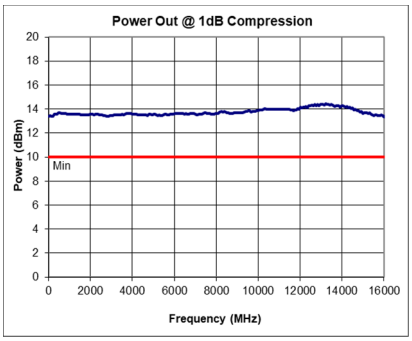
Specifications (23 °C)

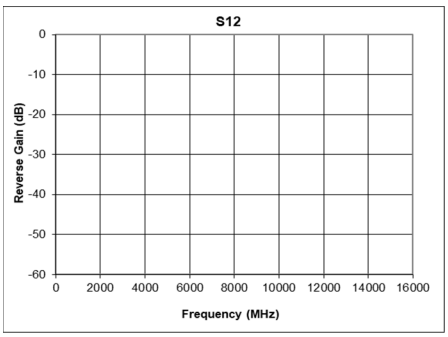
Parameter	Min	Typ	Max	Units
Frequency Range	0.1	-	16	GHz
Noise Figure*	-	-	2.2	dB
Gain	40	-	-	dB
Gain Flatness (+/-)	-		±2.5	dB
P1 Output Power	+10	-	-	dBm
Input VSWR	-	-	2.3:1	
Output VSWR	-	-	2.3:1	
Operating Temperature	-55	-	+85	°C
Non-Operating Temp Range	-65	-	+85	°C
RF Input Power (no-damage)	-	-	+17	dBm
Humidity (non-condensing)	-	-	95	%
Voltage	12	-	15	VDC
Current	-	190		mA
Input Impedance	50			Ohms
RF Connector	3.5mm SMA - Female			
Dimensions	99.1x26.1x32.5			mm
Outline	100169			

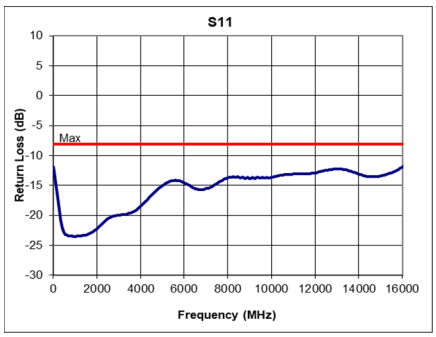
* Noise Source used for measurement from 0.01 to 26.5 GHz is HP346C .
NF Uncertainty (approx. 0. 1dB). 0.05 dB due to ENR of HP 346C; and 0.05 dB, due to the gain modulation of the unit, caused by the HP 346C source impedance change in the ON and OFF state.

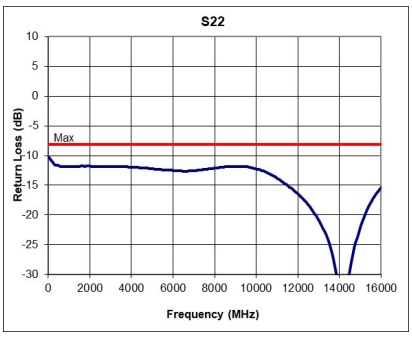












S/N. 21964
Date 4/22/2021

7 Technology Drive • East Setauket • New York 11733
Phone: (631) 675-9666 • Fax: (631) 675-9667 • info@bnztech.com • www.bnztech.com