B&Z TECHNOLOGIES
INNOVATING TO EXCEL

LNA, 10 to 30GHz

Model: BZ3-10003000-300825-152020

Description

This is a low-noise amplifier,
operating in the bandwidth **10.0 to 30 GHz.**

Features

- **Noise Figure ≤ 3.0 dB**
- Internally Regulated DC Voltage
- 50 Ohm Matched Input/Output
- Field Replaceable 2.92mm K 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

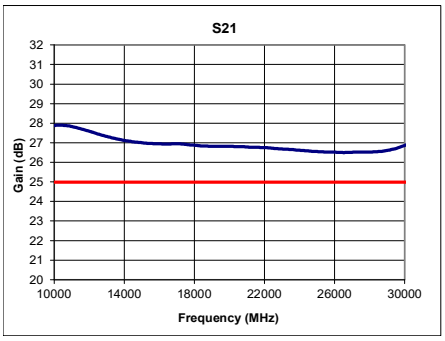
Options

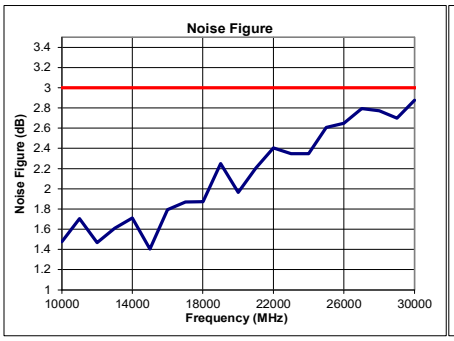
- **Optimized Performance over Selected Bandwidth**
- Internally DC Block Input (Output DC Block Standard)
- Hermetically Sealed Package
- Reverse Polarity Protection
- Gain and Phase matching
- Male or Female Connectors
- Mounted on Heatsink
- Limiting Diode for Higher Input Power Tolerance

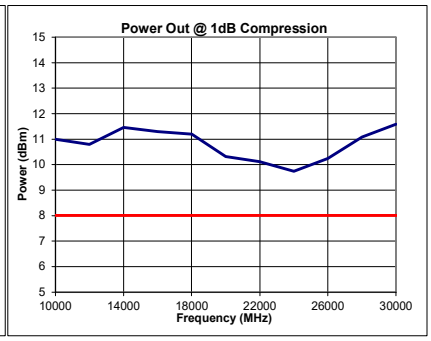
Specifications (23 °C)

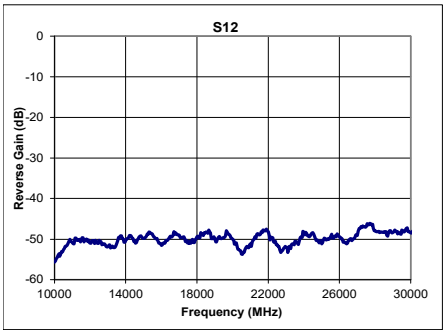
Parameter	Min	Typ	Max	Units
Frequency Range	10	-	30	GHz
Noise Figure*	-	-	3.0	dB
Gain	25	-	-	dB
Gain Flatness (+/-)	-		±1.8	dB
P1 Output Power	+8	-	-	dBm
Input VSWR	-	-	2.3:1	
Output VSWR	-	-	2.3:1	
Operating Temperature	-55	-	+85	°C
Non-Operating Temp Range	-65	-	+85	°C
RF Input Power (no-damage)	-	-	+13	dBm
Humidity (non-condensing)	-	-	95	%
Voltage	12	-	15	VDC
Current	-	150		mA
Input Impedance	50			Ohms
RF Connector	2.92mm K - Female			
Dimensions	29.9x18.7x7.6			mm
Outline	100114			

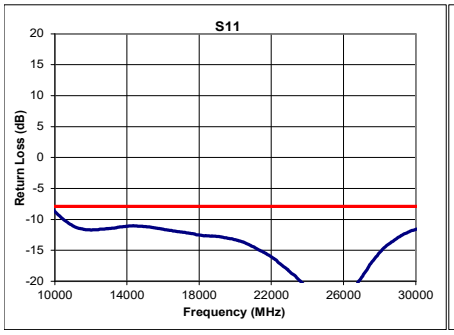
* Noise Source used for measurement from 0.01 to 26.5 GHz is HP346C .
NF Uncertainty (approx. 0. 1dB). 0.05 dB due to ENR of HP 346C; and 0.05 dB, due to the gain modulation of the unit, caused by the HP 346C source impedance change in the ON and OFF state.

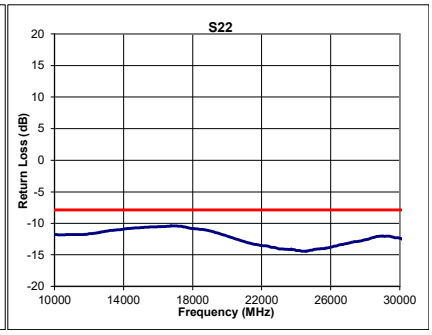












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