B&Z TECHNOLOGIES
INNOVATING TO EXCEL

**LNA, 0.1 to 10GHz**

***Model: BZ-00101000-252020-152323***

## Description

This is a low-noise amplifier,
operating in the bandwidth **0.1 to 10 GHz.**

## Features

- **Noise Figure ≤ 2.5 dB**
- 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

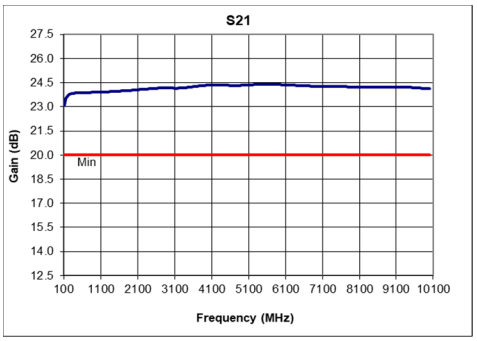
## Options

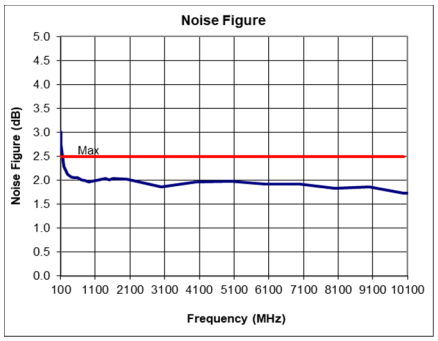
- **Optimized Performance over Selected Bandwidth**
- Internally DC Block Input (Output DC Block Standard)
- Hermetically Sealed Package
- Reverse Polarity Protection
- Gain and Phase matching
- Male or Female Connectors
- Mounted on Heatsink
- Limiting Diode for Higher Input Power Tolerance

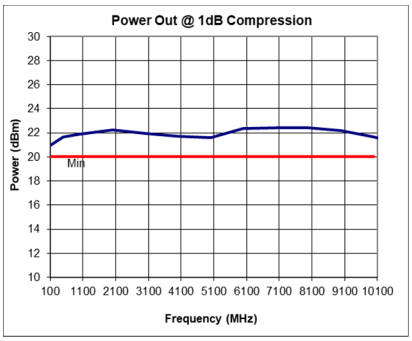
## Specifications (23 °C)

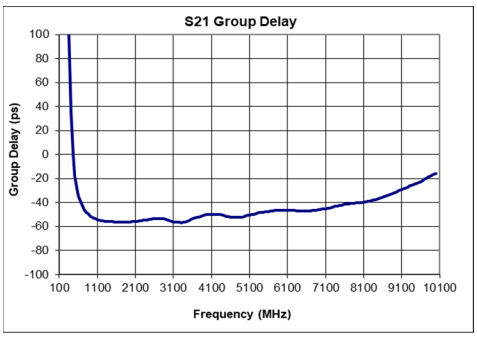
| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | 0.1 | - | 10 | GHz |
| Noise Figure* | - | - | 2.5 | dB |
| Gain | 20 | - | - | dB |
| Gain Flatness (+/-) | - | | ±1.5 | dB |
| P1 Output Power | +20 | - | - | dBm |
| Input VSWR | - | - | 2.3:1 | |
| Output VSWR | - | - | 2.3:1 | |
| Operating Temperature | -55 | - | +85 | °C |
| Non-Operating Temp Range | -65 | - | +85 | °C |
| RF Input Power (no-damage) | - | - | +20 | dBm |
| Humidity (non-condensing) | - | - | 95 | % |
| Voltage | 12 | - | 15 | VDC |
| Current | - | 130 | | mA |
| Input Impedance | 50 | | | Ohms |
| RF Connector | 3.5mm SMA - Female | | | |
| Dimensions | 29.9x18.7x7.6 | | | mm |
| Outline | 100114 | | | |

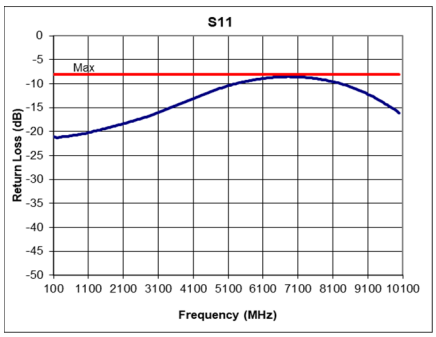
* Noise Source used for measurement from 0.01 to 26.5 GHz is HP346C .
NF Uncertainty (approx. 0. 1dB). 0.05 dB due to ENR of HP 346C; and 0.05 dB, due to the gain modulation of the unit, caused by the HP 346C source impedance change in the ON and OFF state.

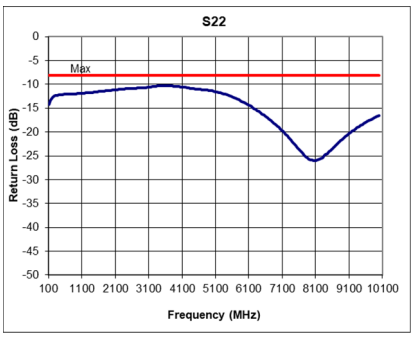
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**Date** 1/12/2023

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