

Description

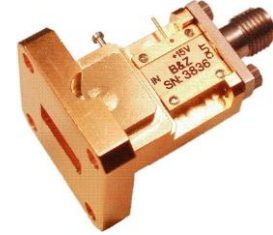
This is a waveguide low-noise amplifier, operating in the bandwidth **6.0 to 12 GHz**.

Features

- **Noise Figure ≤ 1.2 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

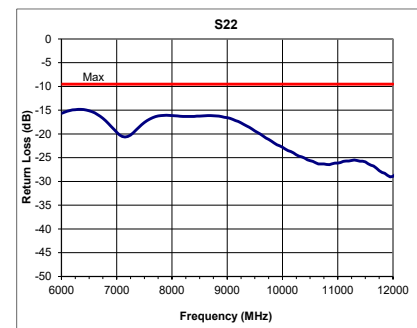
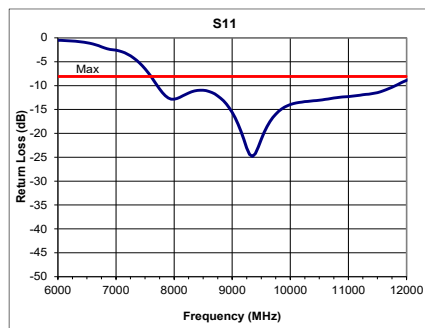
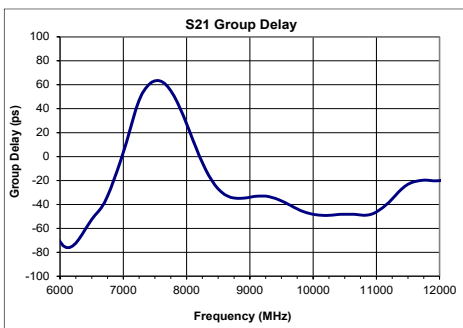
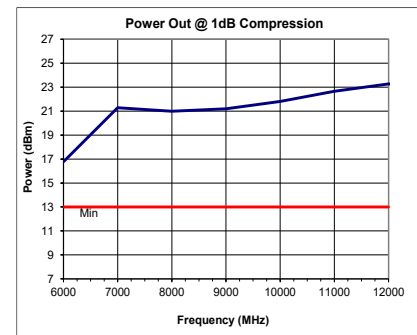
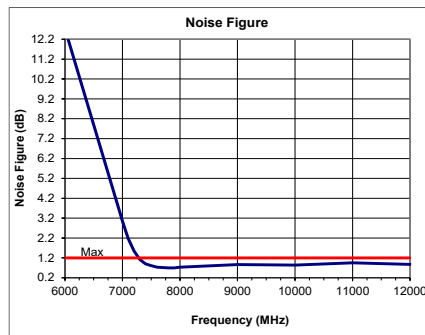
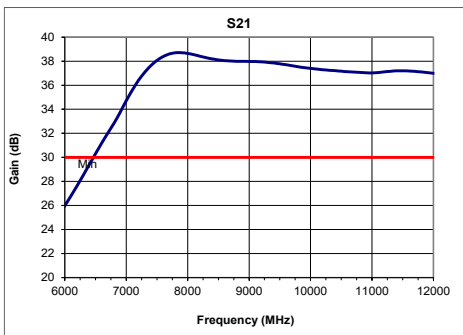


Specifications (23 °C)

Parameter	Min	Typ	Max	Units
Frequency Range	6	-	12	GHz
Noise Figure*	-	-	1.2	dB
Gain	30	-	-	dB
Gain Flatness (+/-)	-	-	± 2.0	dB
P1 Output Power	+13	-	-	dBm
Input VSWR	-	-	2.3:1	
Output VSWR	-	-	2.0:1	
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	WR90 In, SMA Female Out			
Dimensions				mm
Outline	100263			

* Noise Source used for measurement from 0.01 to 26.5 GHz is HP346C.

NF Uncertainty (approx. 0.1 dB). 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. 30272
Date 9/15/2023

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