

## Description

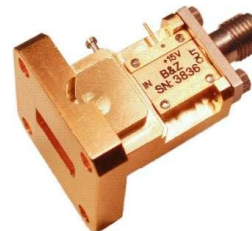
This is a waveguide low-noise amplifier, operating in the bandwidth 8.5 to 9.6 GHz.

## Features

- Noise Figure  $\leq 0.82$  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

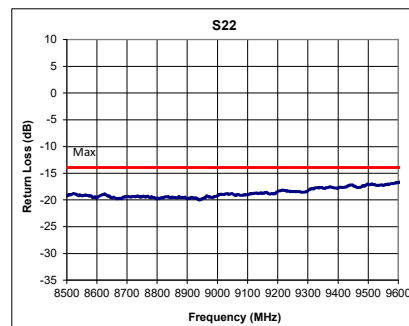
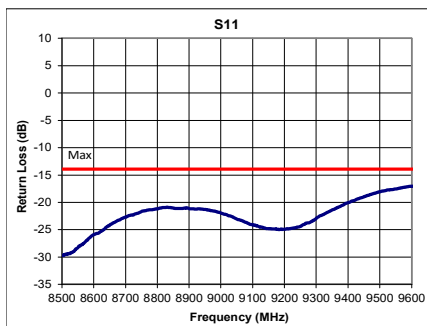
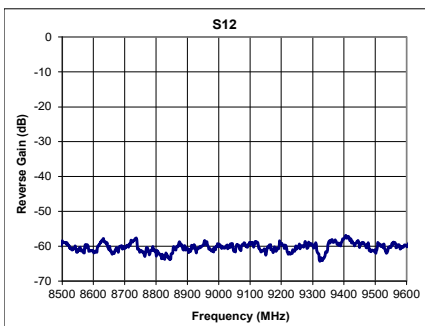
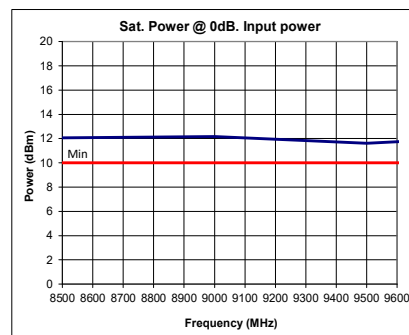
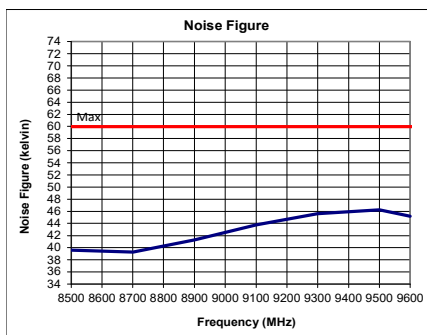
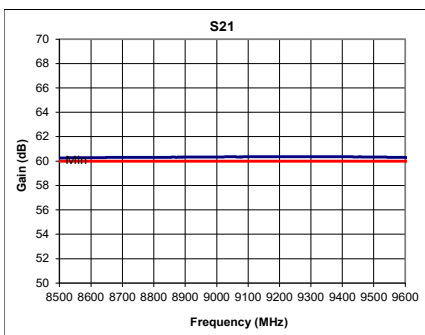


## Specifications (23 °C)

| Parameter                  | Min                | Typ | Max   | Units |
|----------------------------|--------------------|-----|-------|-------|
| Frequency Range            | 8.5                | -   | 9.6   | GHz   |
| Noise Figure*              | -                  | -   | 0.82  | dB    |
| Gain                       | 60                 | -   | -     | dB    |
| Gain Flatness (+/-)        | -                  | -   | ±1.0  | dB    |
| P1 Output Power            | +10                | -   | -     | dBm   |
| Input VSWR                 | -                  | -   | 1.5:1 |       |
| Output VSWR                | -                  | -   | 1.5:1 |       |
| 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                    | -                  | 175 | -     | mA    |
| Input Impedance            | 50                 |     |       | Ohms  |
| RF Connector               | 3.5mm SMA - Female |     |       |       |
| Dimensions                 |                    |     |       | mm    |
| Outline                    | 100137             |     |       |       |

\* 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. 15003  
Date 5/31/2015