

## Description

This is a low-noise amplifier,  
operating in the bandwidth **0.1 to 6 GHz**.



## Features

- **Noise Figure  $\leq 1.0$  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

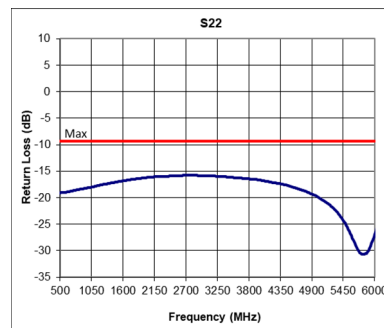
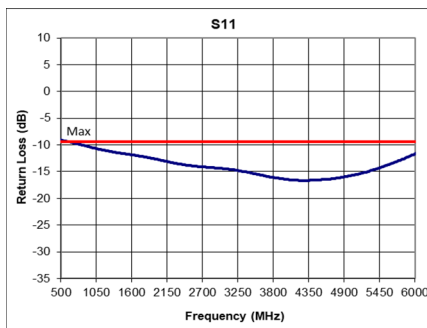
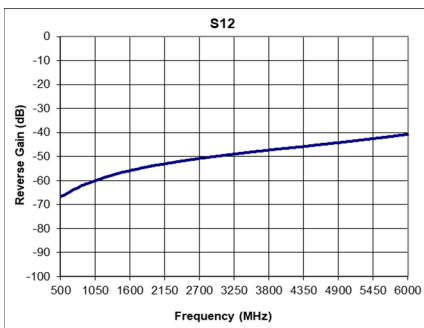
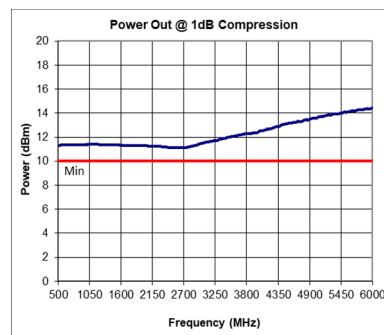
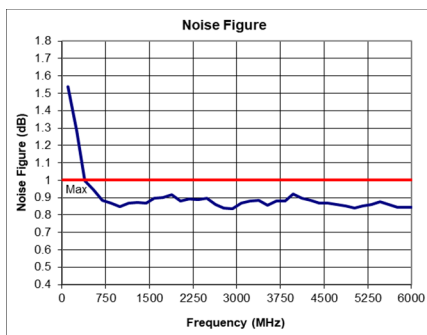
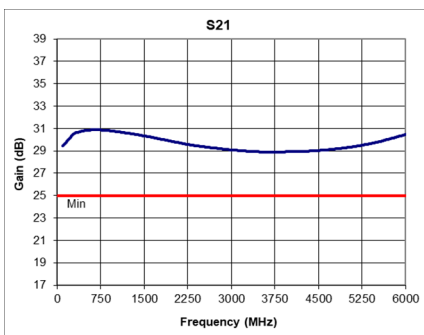
- **Optimized Performance over Selected Bandwidth**
- Internally DC Block Input (Output DC Block Standard)
- Hermetically Sealed Package
- Reverse Polarity Protection
- Gain and Phase matching
- Male or Female Connectors
- Mounted on Heatsink
- Limiting Diode for Higher Input Power Tolerance

## Specifications (23 °C)

| Parameter                  | Min                | Typ | Max       | Units |
|----------------------------|--------------------|-----|-----------|-------|
| Frequency Range            | 0.1                | -   | 6         | GHz   |
| Noise Figure*              | -                  | -   | 1.0       | dB    |
| Gain                       | 25                 | -   | -         | dB    |
| Gain Flatness (+/-)        | -                  | -   | $\pm 1.5$ | dB    |
| P1 Output Power            | +10                | -   | -         | dBm   |
| Input VSWR                 | -                  | -   | 2.0:1     |       |
| 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                    | 8                  | -   | 15        | VDC   |
| Current                    | -                  | 100 | -         | 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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