

## Description

This is a low-noise amplifier, operating in the bandwidth 10.7 to 12.75 GHz.



## Features

- Noise Figure  $\leq 0.9$  dB
- Male Input Connector
- 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

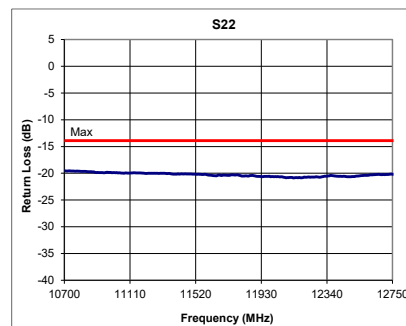
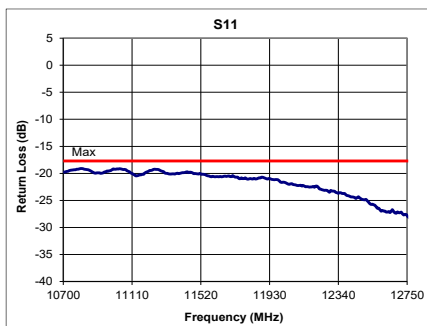
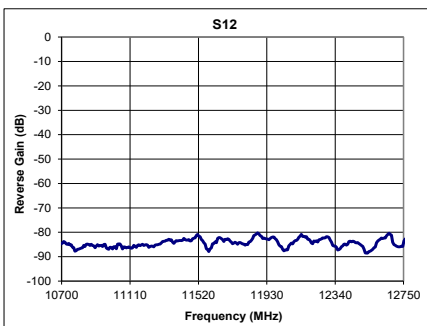
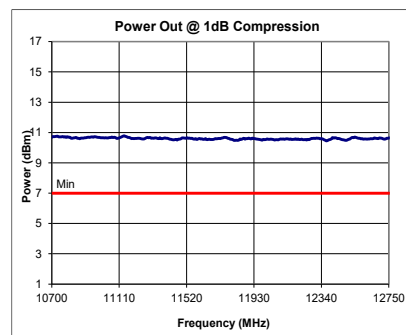
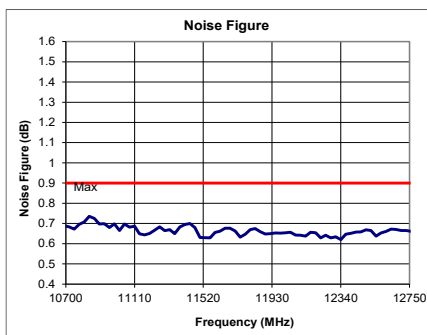
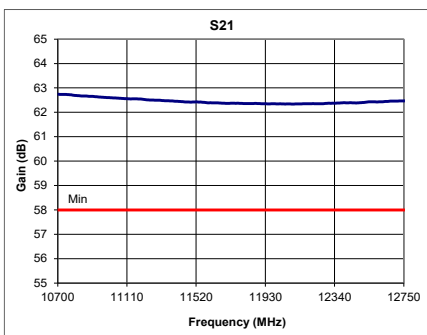
- Optimized Performance over Selected Bandwidth
- Internally DC Block Input (Output DC Block Standard)
- Hermetically Sealed Package
- Reverse Polarity Protection
- Gain and Phase matching
- Male or Female Connectors
- Mounted on Heatsink
- Limiting Diode for Higher Input Power Tolerance

## Specifications (23 °C)

| Parameter                  | Min                  | Typ | Max       | Units |
|----------------------------|----------------------|-----|-----------|-------|
| Frequency Range            | 10.7                 | -   | 12.75     | GHz   |
| Noise Figure*              | -                    | -   | 0.9       | dB    |
| Gain                       | 58                   | -   | -         | dB    |
| Gain Flatness (+/-)        | -                    | -   | $\pm 1.0$ | dB    |
| P1 Output Power            | +10                  | -   | -         | dBm   |
| Input VSWR                 | -                    | -   | 1.3:1     |       |
| 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                    | 7                    | -   | 15        | VDC   |
| Current                    | -                    | 180 | -         | mA    |
| Input Impedance            | 50                   |     |           | Ohms  |
| RF Connector               | Dynawave SMPM - Male |     |           |       |
| 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. 0.1 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.



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