

## Description

This is a low-noise amplifier,  
operating in the bandwidth **0.1 to 40 GHz**.

## Features

- **Noise Figure  $\leq 5.0$  dB**
  - Limiting Diode Protection against moderate ESD
  - Mounted on Heatsink
  - AC coupled at input and output
  - Internally Regulated DC Voltage
  - 50 Ohm Matched Input/Output
  - Field Replaceable 2.92mm K 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
- **Optimized Performance over Selected Bandwidth**
  - Hermetically Sealed Package
  - Reverse Polarity Protection
  - Gain and Phase matching
  - Male or Female Connectors



## Specifications (23 °C)

| Parameter                  | Min               | Typ | Max       | Units |
|----------------------------|-------------------|-----|-----------|-------|
| Frequency Range            | 0.1               | -   | 40        | GHz   |
| Noise Figure*              | -                 | -   | 5.0       | dB    |
| Gain                       | 40                | -   | -         | dB    |
| Gain Flatness (+/-)        | -                 | -   | $\pm 3.5$ | dB    |
| P1 Output Power            | +15               | -   | -         | dBm   |
| Input VSWR                 | -                 | -   | 2.5:1     |       |
| Output VSWR                | -                 | -   | 2.5:1     |       |
| 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                    | -                 | 385 | -         | mA    |
| Input Impedance            | 50                |     |           | Ohms  |
| RF Connector               | 2.92mm K - Female |     |           |       |
| Dimensions                 | 99.1x43.2x32.5    |     |           | mm    |
| Outline                    | 100171            |     |           |       |

\* 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.

