

### Features

- Noise Figure  $\leq 2.4$  dB
- Unconditionally Stable at all temperatures
- 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

### Options

- Optimized Performance over Selected Bandwidth
- Internally DC Block Input (Output DC Block Standard)
- Hermetically Sealed Package
- Improved Gain Flatness
- Improved IN and OUT VSWR
- Gain and Phase matching
- Lower Noise Figure



### Specifications (23 °C)

| Parameter                  | Min                | Typ     | Max     | Units |
|----------------------------|--------------------|---------|---------|-------|
| Frequency Range            | 6                  | -       | 18      | GHz   |
| Noise Figure*              | -                  | 2.2     | 2.4     | dB    |
| Gain                       | 27                 | 29      | -       | dB    |
| Gain Flatness (+/-)        | -                  | $\pm 1$ | $\pm 2$ | dB    |
| P1 Output Power            | +10                | +12     | -       | 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                    | +12                | +12     | +15     | VDC   |
| Current                    | -                  | 125     |         | mA    |
| Input Impedance            | 50                 |         |         | Ohms  |
| RF Connector               | 3.5mm SMA - Female |         |         |       |
| Dimensions                 | 29.9 x 18.7 x 7.6  |         |         | mm    |

\* 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.

### Typical Data



