


**HA1001**

## General Description

The HA1001 is a low noise amplifier for general purpose applications.

The high gain, low noise figure and high output power makes this devices an ideal choice for an input stage amplifier in the frequency range from 1.0GHz to 1.5GHz.

The device operates from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  with a low power consumption of 1.2W.

## Electrical Performance

Typical Data @25 °C

| Parameter                     | Min          | Typ       | Max   | Units |
|-------------------------------|--------------|-----------|-------|-------|
| Frequency Range               | 1.0          |           | 1.5   | GHz   |
| Gain                          | 27.0         | 29.0      |       | dB    |
| Gain Flatness                 |              | $\pm 0.6$ |       | dB    |
| Noise Figure@+25°C            |              | 1.6       | 1.9   | dB    |
| Power Output@P <sub>1dB</sub> | 18.0         | 19.0      |       | dBm   |
| Input VSWR                    |              |           | 2 : 1 |       |
| Output VSWR                   |              |           | 2 : 1 |       |
| Temperature Range             | -40          |           | +85   | °C    |
| DC Voltage                    | 8.0          |           | 12.0  | V     |
| DC Current                    |              |           | 150.0 | mA    |
| Package                       | M101         |           |       |       |
| Size                          | 55 x 32 x 11 |           |       | mm    |

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