

## General Description

The HA5005 is a C-band power amplifier which covers the frequencies from 5.3 to 5.9 GHz with a gain of 31 dB and an output power of 2 Watts.

The amplifier uses a single supply voltage, is DC regulated and has reverse polarity protection and over heat protection.

## Electrical Performance

Typical Data @25 °C

| Parameter                     | Min           | Typ     | Max   | Units |
|-------------------------------|---------------|---------|-------|-------|
| Frequency Range               | 5.3           |         | 5.9   | GHz   |
| Small Signal Gain             |               | 31.0    |       | dB    |
| Gain Flatness                 |               | ± 1     | ± 1.5 | dB    |
| Power Output@P <sub>1dB</sub> | +33           | +34     |       | dBm   |
| Input VSWR                    |               | 1.5 : 1 | 2 : 1 |       |
| Output VSWR                   |               | 1.5 : 1 | 2 : 1 |       |
| Temperature Range             | 0             |         | +55   | °C    |
| DC Voltage                    | 11.5          | 12.0    | 13.0  | V     |
| DC Current                    |               | 1.5     |       | A     |
| Connectors                    | SMA female    |         |       |       |
| Package                       | tbd           |         |       |       |
| Size (without heat sink)      | 100 x 70 x 25 |         |       | mm    |

Note: Cold plate required.

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