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| <b>HA3002</b> |
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## General Description

The HA3002 is a power amplifier in the frequency range from 3.0GHz to 3.7GHz.

The device operates from  $-45^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

## Electrical Performance

Typical Data @25 °C

| Parameter                | Min           | Typ    | Max       | Units              |
|--------------------------|---------------|--------|-----------|--------------------|
| Frequency Range          | 3.0           |        | 3.7       | GHz                |
| Gain                     |               | 30.0   |           | dB                 |
| Gain Variation vs. Freq. |               |        | $\pm 1.0$ | dB@34dBm           |
| Gain Variation vs. Temp  |               |        | $\pm 2.0$ | dB@34dBm           |
| Noise Figure             |               |        | 9.0       | dB                 |
| Power Output             |               | 34.0   |           | dBm                |
| Input VSWR               |               |        | 2.0:1     |                    |
| Output VSWR              |               |        | 1.5:1     |                    |
| Temperature Range        | -45           |        | +85       | $^{\circ}\text{C}$ |
| DC Voltage               |               | 15.0   |           | V                  |
| DC Current (max)         |               | 3000.0 |           | mA                 |
| Package                  | tbd           |        |           |                    |
| Size (max)               | 127 x 76 x 25 |        |           | mm                 |

Rev. 1.0

**!!! Cold Plate +85°C max. REQUIRED!!!**