

### 4.0 – 6.0 GHz 43dBm GaN HP SSPA Module

#### FEATURES

- $P_{sat}$ : +43dBm
- Bias Condition: ~3.7A@+28V
- Small Signal Gain: 46dB, typ.

#### ELECTRICAL SPECIFICATIONS (Specified at 25 °C)

| Symbol                      | Description                                    | Min.  | Typ. | Max.  | Unit |
|-----------------------------|--|---|------|-------|------|
| <b>FREQ</b>                 | Frequency Range                                | 4   |      | 6     | GHz  |
| <b>SSG</b>                  | Small Signal Gain                              |   | 46   |       | dB   |
| <b><math>P_{sat}</math></b> | Saturation Output Power at Pin = 0dBm          | +43   |      |       | dBm  |
| <b>VSWR, IN</b>             | Input VSWR                                     |   |      | 2.0:1 | -    |
| <b>VSWR, OUT</b>            | Output VSWR                                    |   |      | 2.0:1 | -    |
| <b>Vdc</b>                  | DC Supply Voltage(internal regulator included) | +27   | +28  | +30   | Volt |
| <b>Idc</b>                  | DC Current Supply, @ $P_{sat}$                 |   | 3.7  |       | A    |
| <b>On/Off</b>               | DC On/Off, TTL(Mute) Control                   | "1"= DC On ; "0"= DC Off ; "Floating"= DC off       |      |       |      |
| <b>OTR</b>                  | Operating Temperature Range, baseplate         | -30   |      | +65   | °C   |
| <b>RF/DC</b>                | RF Connectors                                  | RF Input : SMA Female ; RF Output : SMA Female      |      |       |      |
|                             | DC Connectors                                  | DC: Feedthrough Soldered pins(x3) ; Ground: GND Lug |      |       |      |

**MECHANICAL HOUSING(CASE) : unit is inch**

