

## 16 – 18 GHz 10 dBm Power Amplifier

### FEATURES

- P<sub>1</sub> dB: 10 dBm
- Noise Figure: 2.7 dB (max.)
- Small Signal Gain: 50 dB (min.)
- Bias Condition: 280 mA @ 15 V

### ELECTRICAL SPECIFICATIONS at 25 ° C

| Symbol                  | Description  | Min. | Typ.  | Max. | Unit |
|-------------------------|--|------|-------|------|------|
| <b>FREQ</b>             | Frequency Range                                      | 16   |       | 18   | GHz  |
| <b>SSG</b>              | Small Signal Gain @ 25                               | 50   |       |      | dB   |
| <b>P<sub>1</sub> dB</b> | Output Power at 1 dB Gain Compression @ 25           |      | 10    |      | dBm  |
| <b>NF</b>               | Noise Figure @ 25                                    |      |       | 2.7  | dB   |
| <b>VSWR, IN</b>         | Input VSWR @ 25                                      |      | 1.8:1 | 2:1  | -    |
| <b>VSWR, OUT</b>        | Output VSWR @ 25                                     |      | 1.8:1 | 2:1  | -    |
| <b>Vdc</b>              | DC Supply Voltage ( <b>with built-in regulator</b> ) |      | 15    |      | Volt |
| <b>Idc</b>              | Current Supply                                       |      | 0.28  | 0.3  | A    |
| <b>OTR</b>              | Operating Temperature Range                          | -30  |       | 60   | °C   |

**CASE: HD7**