

6 ~ 18 GHz 27dBm Medium Power Amplifier

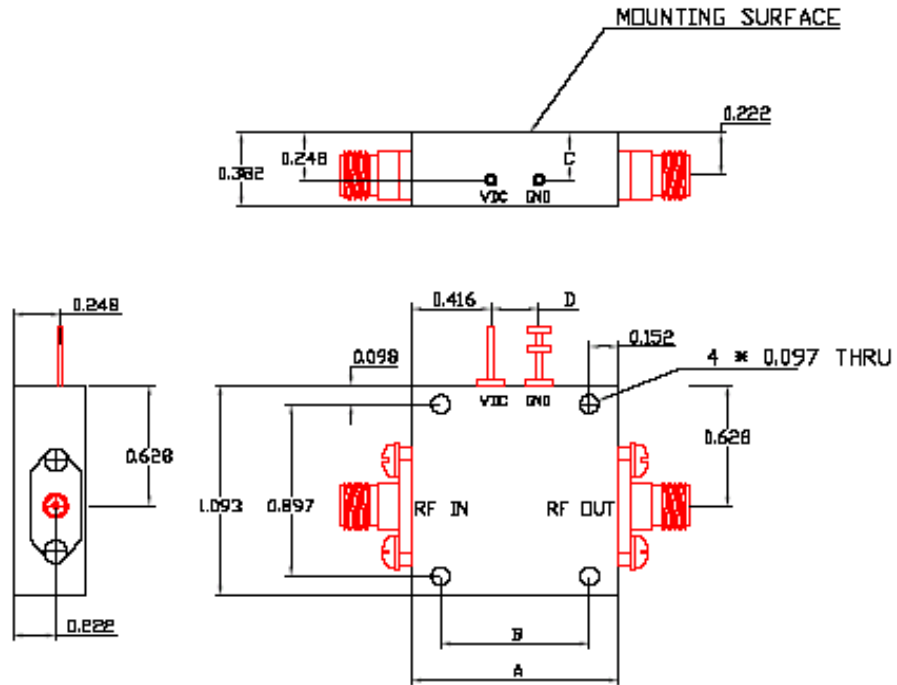
FEATURES

- P_{1dB} : 27dBm, min.
- Small Signal Gain: 28dB, min.
- Bias Condition: 800mA @ 12 V

ELECTRICAL SPECIFICATIONS (Specified at 25C)

| SYMBOL | DESCRIPTION | MIN | TYP | MAX | UNITS |
|-----------------------------|--|-----|------|-------|-------|
| FREQ | Frequency Range | 6 | | 18 | GHz |
| SSG | Small Signal Gain | 28 | 31 | | dB |
| GOF | Small Signal Gain Flatness | | ±1.2 | | dB |
| NF | Noise Figure | | 5.4 | | dB |
| P_{1dB} | Output Power at 1 dB Gain Compression | 27 | | | dBm |
| IP3 | The Third Intercept Point | | 37 | | dBm |
| VSWR, IN | Input VSWR | | | 2 : 1 | ----- |
| VSWR, OUT | Output VSWR | | | 2 : 1 | ----- |
| Vdc | DC Supply Voltage(with built-in regulator) | 11 | 12 | 15 | Volt |
| Idc | Current Supply | | 800 | | mA |
| OTR | Operating Temperature Range | -30 | | 70 | °C |

Housing : **HG6**, with SMA female removable connectors, unit is inch



| DIM CASE | A | B | C | D |
|-------------|-------|-------|-------|------|
| HG2 | 0.841 | 0.537 | 0.080 | 0.13 |
| HG3 | 1.083 | 0.779 | 0.248 | 0.25 |
| HG4 | 1.333 | 1.029 | 0.248 | 0.25 |
| HG5 | 1.583 | 1.279 | 0.248 | 0.25 |
| HG6 | 1.833 | 1.529 | 0.248 | 0.25 |