

## 6 ~ 12GHz 35dB Gain +15dBm Power Amplifier

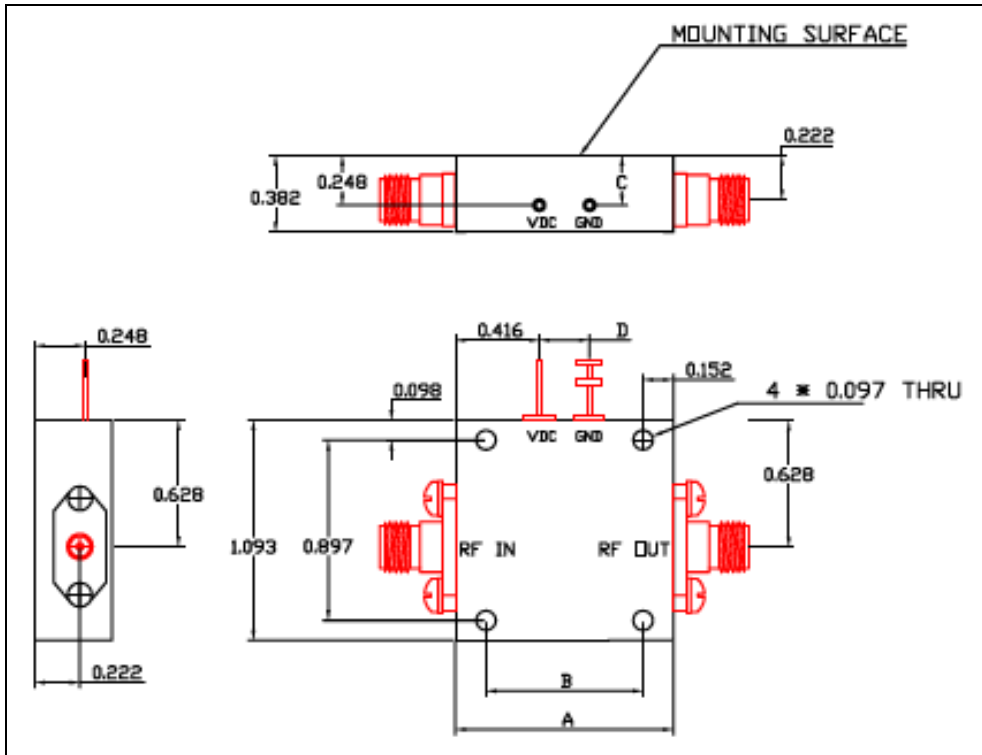
### FEATURES

- $P_{1dB}$ : +15dBm, min.
- Small Signal Gain: 35dB, min.
- Bias Condition: 180mA @ +12 V

### ELECTRICAL SPECIFICATIONS (Specified at 25C)

| SYMBOL                      | DESCRIPTION                                | MIN | TYP  | MAX   | UNITS |
|-----------------------------|--|-----|------|-------|-------|
| <b>FREQ</b>                 | Frequency Range                            | 6   |      | 12    | GHz   |
| <b>SSG</b>                  | Small Signal Gain                          | 35  | 39   |       | dB    |
| <b>GOF</b>                  | Small Signal Gain Flatness                 |     | ±0.8 |       | dB    |
| <b>NF</b>                   | Noise Figure                               |     | 2.3  |       | dB    |
| <b><math>P_{1dB}</math></b> | Output Power at 1 dB Gain Compression      | +15 |      |       | dBm   |
| <b>IP3</b>                  | The Third Intercept Point                  |     | +25  |       | dBm   |
| <b>VSWR, IN</b>             | Input VSWR                                 |     |      | 2 : 1 | ----- |
| <b>VSWR, OUT</b>            | Output VSWR                                |     |      | 2 : 1 | ----- |
| <b>Vdc</b>                  | DC Supply Voltage(with built-in regulator) | +11 | +12  | +15   | Volt  |
| <b>Idc</b>                  | Current Supply                             |     | 180  |       | mA    |
| <b>OTR</b>                  | Operating Temperature Range                | -30 |      | 70    | °C    |

**Housing:** HG4, with SMA female removable connectors, unit is inch



| DIM | 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 |

Unit: inch