

### 0.5 – 2.0 GHz 15dBm Amplifiers

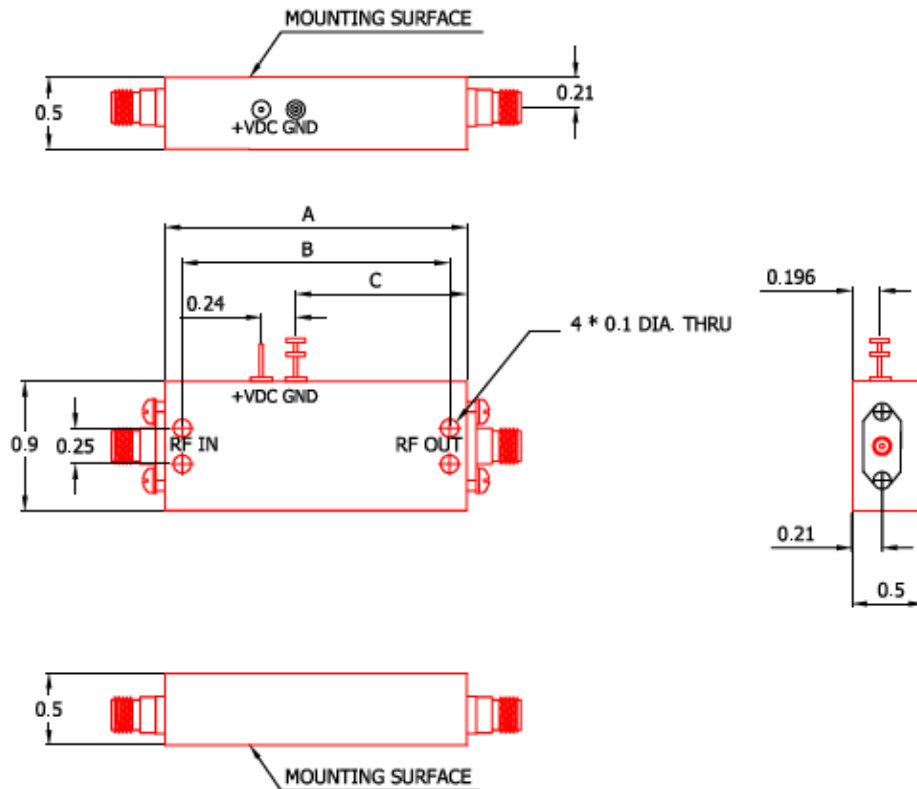
#### FEATURES

- P<sub>1</sub> dB: 15dBm(min.)
- Noise Figure: 1.8dB
- Bias Condition: 70mA @ 12 V
- Small Signal Gain: 15dB(min.)

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

| Symbol                  | Description   | Min. | Typ.  | Max.  | Unit |
|-------------------------|---|------|-------|-------|------|
| <b>FREQ</b>             | <b>Frequency Range</b>                                | 0.5  |       | 2     | GHz  |
| <b>SSG</b>              | <b>Small Signal Gain</b>                              | 15   | 17    |       | dB   |
| <b>GOF</b>              | <b>Small Signal Gain Flatness</b>                     |      | ± 0.4 | ± 0.5 | dB   |
| <b>P<sub>1</sub> dB</b> | <b>Output Power at 1 dB Gain Compression</b>          | 15   |       |       | dBm  |
| <b>IP3</b>              | <b>The 3<sup>rd</sup> intercept Point</b>             |      | 25    |       |      |
| <b>NF</b>               | <b>Noise Figure</b>                                   |      | 1.8   |       | dB   |
| <b>VSWR, IN</b>         | <b>Input VSWR</b>                                     |      | 2.0:1 |       | -    |
| <b>VSWR, OUT</b>        | <b>Output VSWR</b>                                    |      | 2.0:1 |       | -    |
| <b>Vdc</b>              | <b>DC Supply Voltage(internal regulator included)</b> | 11   | 12    | 15    | Volt |
| <b>Idc</b>              | <b>Current Supply</b>                                 |      | 70    | 80    | mA   |
| <b>OTR</b>              | <b>Operating Temperature Range</b>                    | -30  |       | 70    | °C   |

**CASE: HS3, as shown attached, unit is in inch.**



| Case | "A" DIM | "B" DIM | "C" DIM |
|------|---------|---------|---------|
| 7    | 2.10    | 1.86    | 0.67    |
| 6    | 1.85    | 1.61    | 0.67    |
| 5    | 1.60    | 1.36    | 0.67    |
| 4    | 1.35    | 1.11    | 0.43    |
| 3    | 1.10    | 0.86    | 0.43    |