

### 0.5 ~ 2 MHz 45dB Gain 15dBm Power Amplifier

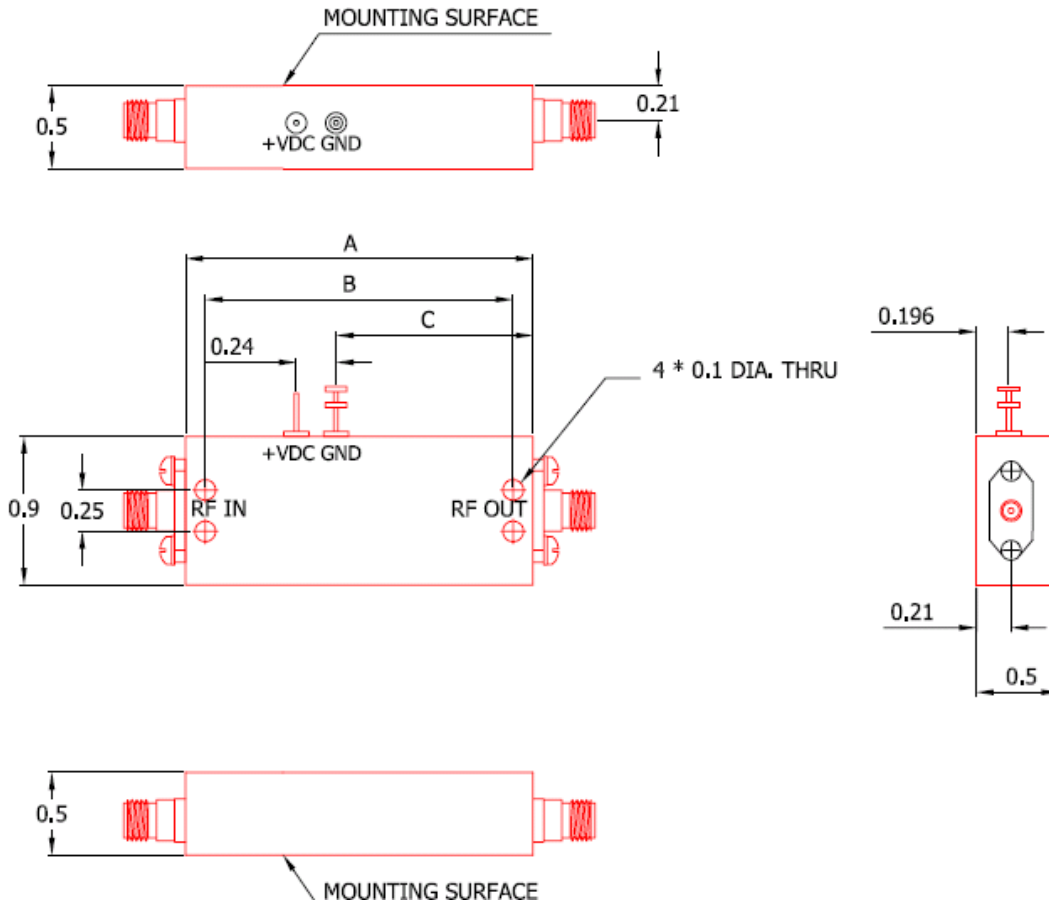
#### FEATURES

- $P_{1dB}$ : 15dBm, min.
- Small Signal Gain: 45dB, min.
- Bias Condition: 180mA @ 12 V

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

| SYMBOL    | DESCRIPTION                                | MIN | TYP  | MAX   | UNITS |
|-----------|--|-----|------|-------|-------|
| FREQ      | Frequency Range                            | 0.5 |      | 2.0   | GHz   |
| SSG       | Small Signal Gain                          | 45  | 50   |       | dB    |
| GOF       | Small Signal Gain Flatness                 |     | ±0.8 |       | dB    |
| NF        | Noise Figure                               |     | 1.8  |       | dB    |
| $P_{1dB}$ | Output Power at 1 dB Gain Compression      | 15  |      |       | dBm   |
| IP3       | The Third Intercept Point                  |     | 25   |       | dBm   |
| VSWR, IN  | Input VSWR                                 |     |      | 2 : 1 | ----- |
| VSWR, OUT | Output VSWR                                |     |      | 2 : 1 | ----- |
| Vdc       | DC Supply Voltage(with built-in regulator) | 11  | 12   | 13    | Volt  |
| Idc       | Current Supply                             |     | 180  |       | mA    |
| OTR       | Operating Temperature Range                | -30 |      | 70    | °C    |

Housing : HS4, with SMA female removable connectors, unit is 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    |