

## 50 ~ 1000 MHz 27 dBm Power Amplifier

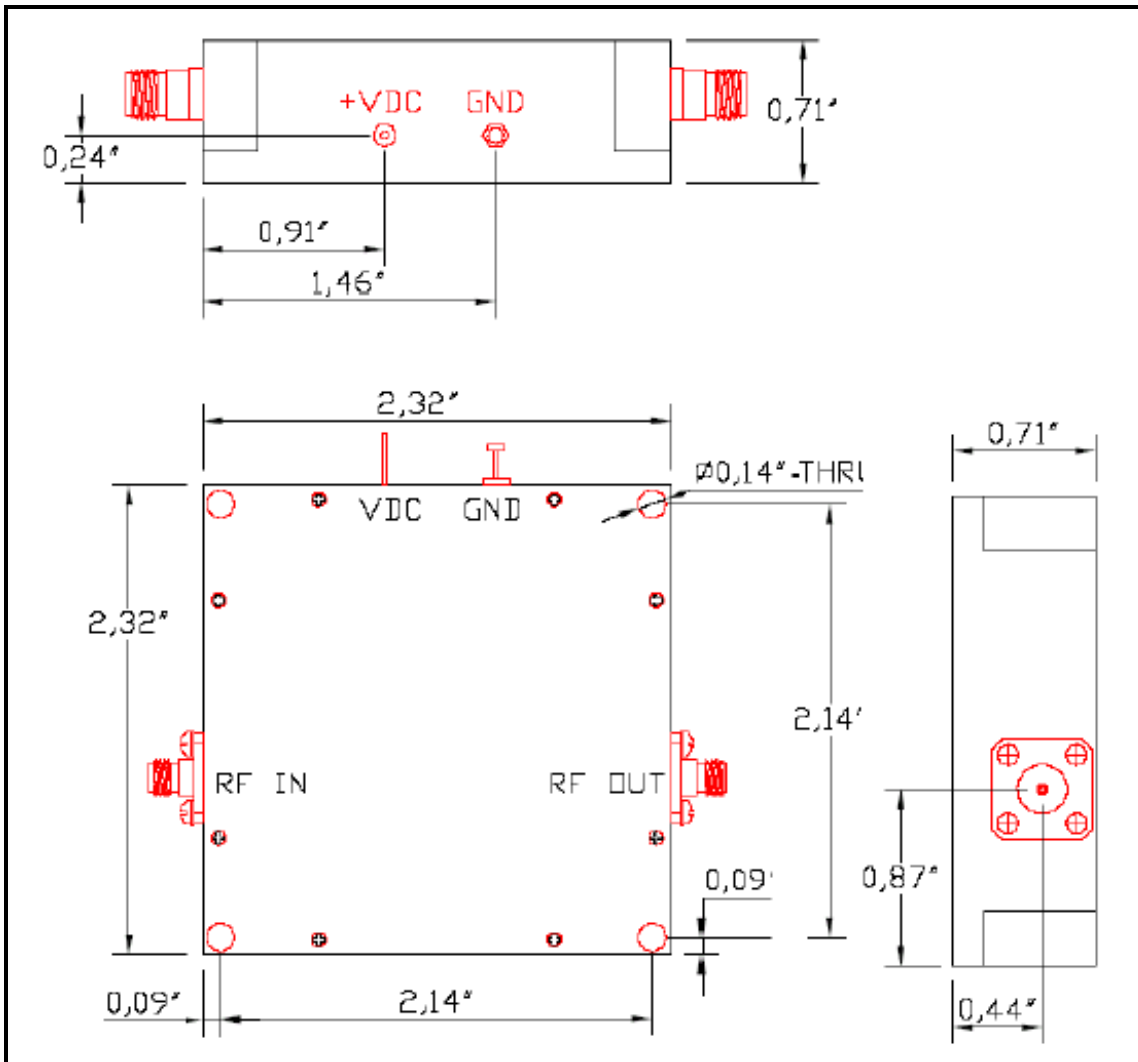
### FEATURES

- $P_{1dB}$ : 27 dBm, min.
- Small Signal Gain: 24 dB, min.
- Bias Condition: 400 mA @ 12 V

### ELECTRICAL SPECIFICATIONS (specified at 25C)

| SYMBOL                      | DESCRIPTION                                | MIN | TYP     | MAX   | UNITS |
|-----------------------------|--|-----|---------|-------|-------|
| <b>FREQ</b>                 | Frequency Range                            | 50  |         | 1000  | MHz   |
| <b>SSG</b>                  | Small Signal Gain                          | 24  | 26      |       | dB    |
| <b>GOF</b>                  | Small Signal Gain Flatness                 |     |         | ±0.75 | dB    |
| <b><math>P_{1dB}</math></b> | Output Power at 1 dB Gain Compression      | 27  | 28      |       | dBm   |
| <b>IP3</b>                  | The 3 <sup>rd</sup> Intercept Point        |     | 36      |       | dBm   |
| <b>NF</b>                   | Noise Figure                               |     | 5       |       | dB    |
| <b>VSWR, IN</b>             | Input VSWR                                 |     | 1.9 : 1 | 2 : 1 | ----- |
| <b>VSWR, OUT</b>            | Output VSWR                                |     | 1.9 : 1 | 2 : 1 | ----- |
| <b>Vdc</b>                  | DC Supply Voltage(with built-in regulator) | 11  | 12      | 15    | Volt  |
| <b>Idc</b>                  | Current Supply                             |     | 400     |       | mA    |
| <b>OTR</b>                  | Operating Temperature Range                | -30 |         | 70    | °C    |

Housing: HZ9, as shown in page 2



Unit : inch