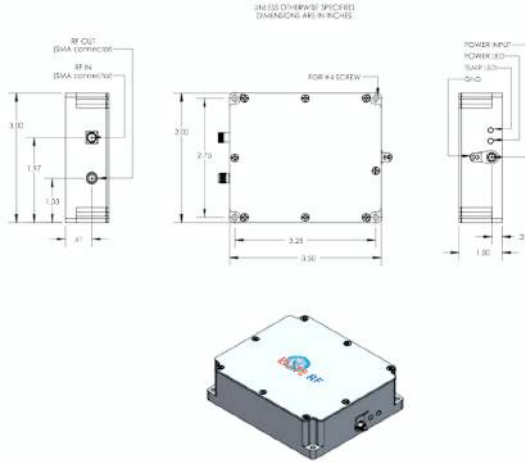


General Description:

This system is a broadband power amplifier designed for CW/Digital/Pulse signals and general-purpose amplification. Using advanced high power density LDMOS and GaN semiconductor devices, these high-performance amplifiers achieve high efficiency, high gain, and wide dynamic range. Like all Elite RF amplifiers, the product comes with an industry leading **5-year warranty**



Features

30 – 14000 MHz
11 dBm
24 dB gain
Class A
15 VDC

Indicator options

DC Power
Temp Fault

Protections

Thermal Overload
Over Voltage
Reverse Polarity

ELECTRICAL SPECIFICATIONS

| Parameter | Symbol | Min | Typ | Max | Unit |
|----------------------------------|------------|-----|-------|-------|-------|
| Frequency Range | BW | 30 | | 14000 | MHz |
| Output Power CW | Psat | | 14 | | dBm |
| Output Power at 1 dB Compression | P1dB | | 11 | | dBm |
| Small Signal Gain | Gp | | 24 | | dB |
| Gain Flatness @ P1dB | Delta Gp 1 | | +/- 2 | | dB |
| Input VSWR | S11 | | 2:1 | | - |
| IMD @ 8 GHz @ 0dBm/ tone | IP3 | | 20 | | dBm |
| Harmonics at 11 dBm | H | | -20 | | dBc |
| Spurious Signals | Spur | | -60 | | dBc |
| Operating Voltage | VDC | 14 | 15 | 16 | VDC |
| DC Current | Current | | 150 | | mA |
| Class of Operation | C | | A | | Class |
| Noise Figure | NF | | 6 | | dB |
| Gain Adjustment Range | GA | | N/A | | dB |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Symbol | Min | Typ | Max | Unit |
|------------------------------------|--------|-----|-----|------------------------|-------|
| Operating Case Temperature | Tc | -20 | | +60 | Deg C |
| Storage Temperature | Tstg | -40 | | +85 | Deg C |
| Relative Humidity (non-condensing) | RH | | | 95 | % |
| Altitude | ALT | | | 10,000 | Feet |
| Vibration/Shock | VI /SH | | | Normal Truck Transport | |

MECHANICAL CHARACTERISTICS

| Parameter | Symbol | Min | Typ | Max | Unit |
|-------------------|---------|-----|-----------------|-----|--------|
| Dimensions | Dim | | 3.5 x 3.0 x 1.0 | | Inches |
| Weight | Wt. | | 1 | | lbs. |
| Connectors In/Out | RF Conn | | SMA/SMA | | - |
| Cooling | Th | | Convection | | - |