

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 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 warranty.



Features

2.4 – 2.6 GHz
1000 watts pk
50 dB gain
Class AB
100- 240 VAC

Protections

Thermal Overload

ELECTRICAL SPECIFICATIONS

| Parameter | Symbol | Min | Typ | Max | Unit |
|---------------------------------|------------|-----|-------|-----|-------|
| Frequency Range | BW | 2.4 | | 2.6 | GHz |
| Output Power Pk | Ppk | | 1000 | | Watt |
| Output Power avg | Pavg | | 100 | | Watt |
| Small Signal Gain | Gp | | 50 | | dB |
| Gain Flatness @ 100 watts | Delta Gp 1 | | +/- 1 | | dB |
| Input VSWR | S11 | | 2:1 | | - |
| Duty Cycle @ 100 watts | DC | | - | 100 | % |
| Harmonics at 100 Watts | H | | -20 | | dBc |
| Spurious Signals | Spur | | -60 | | dBc |
| Operating Voltage | VAC | | 120 | 240 | Volts |
| Average AC Current at 100 watts | Current | | 2.0 | | Amps |
| Class of Operation | C | | AB | | Class |
| Noise Figure | NF | | N/A | | dB |
| Large Signal Gain | Lsg | | 49 | | 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 | | 19 x15 x 5.25 | | Inches |
| Weight | Wt. | | 15 | | lbs. |
| Connectors In/Out | RF Conn | | N/N | | - |
| Cooling Required | Th | | Internal | | - |