

LINEAR PULSED POWER AMPLIFIER

Model – AP8.0011G5348AC



General Description:

Elite RF's **MP Series** amplifier is a narrowband power amplifier designed for Pulsed signals fabricated on GaN on SiC process and can operate up to **11 GHz**. These amplifiers offer high power density, low thermal resistance, and narrowband performance. They can be widely used for military and commercial applications.

Like all Elite RF amplifiers, this product comes with an industry leading **5-year warranty**.

Features

Pulsed operation
High Pk. Output Power
High Gain
High Reverse Isolation
Built-in Protection

Indicator options

DC Power
Temp Fault

Protections

Thermal Overload
Over Voltage
Reverse Polarity

ELECTRICAL SPECIFICATIONS

| Parameter | Symbol | Min | Typ | Max | Unit |
|--|------------|------|-------|-------|-------|
| Frequency Range | BW | 8000 | | 11000 | MHz |
| Output Power Pk | Psat | | 200 | | Watt |
| Duty Cycle | Dc | | 5 | 10 | % |
| Small Signal Gain | Gp | | 50 | | dB |
| Gain Flatness | Delta Gp 1 | | +/- 1 | | dB |
| Input VSWR | S11 | | 2:1 | | Ratio |
| Pulse width | Pw | | 50 | 100 | uS |
| Harmonics | H | | -20 | | dBc |
| Spurious Signals | Spur | | -60 | | dBc |
| Operating Voltage | VAC | 100 | 120 | 240 | VAC |
| Average AC power at 200 watts @ 10% DC | ACp | | 80 | | Watts |
| Class of Operation | C | | AB | | Class |
| Noise Figure | NF | | 5 | | dB |
| Large Signal Gain | Lsg | | 48 | | dB |
| Max Load VSWR @ 200 Watts | ML | | 6:1 | | Ratio |

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" x 15" x 3.5" | | Inches |
| Weight | Wt. | | 20 | | lbs. |
| Connectors In/Out | RF Conn | | N/N type | | - |
| Cooling | Th | | Internal | | - |

OPTIONS

| Parameter | Add suffix to part number |
|---|---------------------------|
| Heat sink and fans | - H |
| Isolator with forward and reverse voltage outputs | N/A |
| TTL Input Trigger | - T |

Mechanical Drawings

