

LINEAR WIDEBAND POWER AMPLIFIER

Model – MB6.0018G494928



General Description:

Elite RF's MB Series amplifier is a wideband power amplifier designed for CW signals and can operate up to 18000 MHz. These amplifiers offer high power density, low thermal resistance, and wideband performance. They can be widely used for military and commercial applications.

Like all Elite RF amplifiers, the product comes with an industry leading warranty.

Features

Wide Freq. Range
High Output Power
High Gain

Applications

Communication
EMC

ELECTRICAL SPECIFICATIONS

| Parameter | Symbol | Min | Typ | Max | Unit |
|-----------------------------------|------------|------|-------|-------|-------|
| Frequency Range | BW | 6000 | | 18000 | MHz |
| Output Power CW | Psat | 48.5 | | | dBm |
| Output Power at 1 dB Compression | P1dB | | 43 | | dBm |
| Gain | Gp | 49 | | | dB |
| Gain Flatness | Delta Gp 1 | | +/- 4 | | dB |
| Input VSWR at 50 ohm | S11 | | | 2:1 | Ratio |
| Harmonics | H | | -15 | | dBc |
| Spurious Signals | Spur | | -55 | | dBc |
| Operating Voltage | VDC | | 28 | | Volts |
| Power Consumption at rated output | P | | | 600 | VAC |
| Input Power | Pin | | | 5 | dBm |
| Power Display Accuracy | C | | - | | dB |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Symbol | Min | Typ | Max | Unit |
|------------------------------------|--------|-----|------------------------|-----|--------|
| Operating Case Temperature | Tc | 0 | | +40 | Deg. C |
| Storage Temperature | Tstg | -20 | | +75 | Deg. C |
| Relative Humidity (non-condensing) | RH | 5 | | 95 | % |
| Vibration/Shock | VI /SH | | Normal Truck Transport | | |

MECHANICAL CHARACTERISTICS

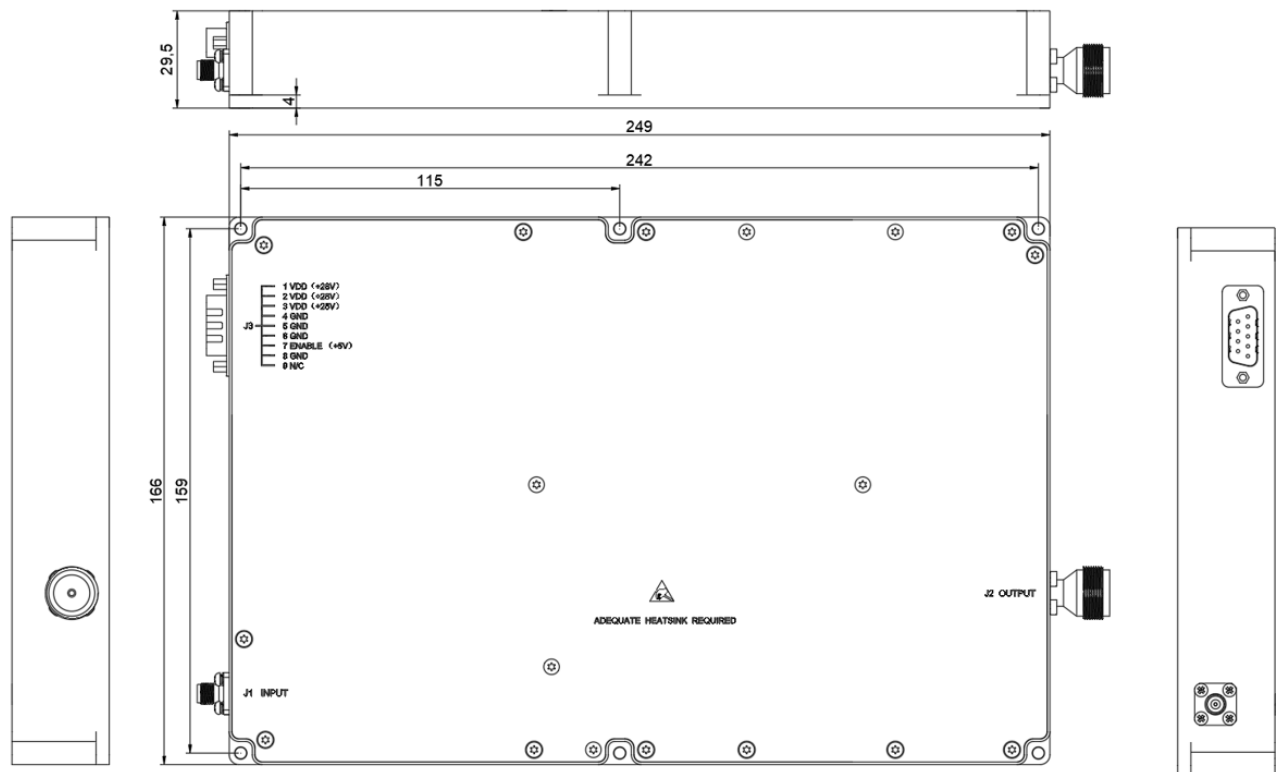
| Parameter | Symbol | Min | Typ | Max | Unit |
|-------------------|---------|-----|---------------------------------------|-----|------|
| Dimensions | Dim | | 9.80 x 6.54 x 1.16 | | inch |
| Weight | Wt. | | | 0.8 | kg |
| Connectors In/Out | RF Conn | | SMA-F/N-F | | - |
| Cooling | Th | | Fan Cooling (Need to adapt heat sink) | | - |
| Control Interface | Cl | | D-SUB-9 | | - |
| Control mode | Cm | | EN +5V | | - |

CONTROL INTERFACE

| Options | Available |
|-------------------------|-----------|
| Front Panel Touchscreen | - |
| LAN/USB | - |
| Custom Controls | - |

Mechanical Drawings

(Just for Reference)



Elite RF LLC

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Rev2 01/24/2025:
 Specifications subject to change, consult
 sales for latest information