

## LINEAR WIDEBAND POWER AMPLIFIER

**Model – MB5.06.0G494828**

### General Description:

**Elite RF's MB Series** amplifier is a wideband power amplifier designed for CW signals fabricated on GaN on SiC process and can operate up to **6.0 GHz**. These amplifiers offer high power density, decade bandwidth performance, low thermal resistance, and wideband performance. They can be widely used for military and commercial applications.

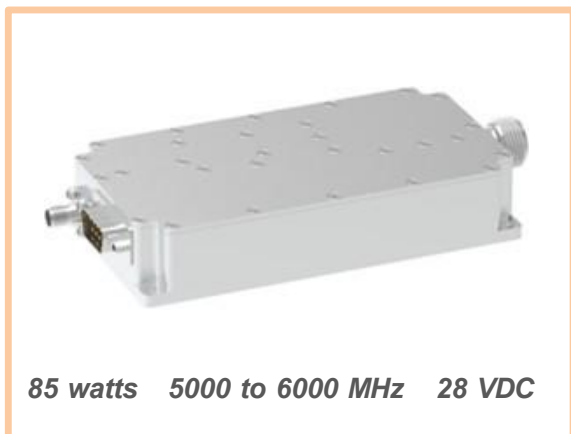
**Like all Elite RF amplifiers**, this product comes with an industry leading warranty.

### Features

Wide Freq. Range  
High Output Power  
High Gain

### Protections

Over Heat  
Over Current



### ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	5000		6000	MHz
Output Power CW	Psat	85			Watt
Output Power at 1 dB Compression	P1dB		46		dBm
Small Signal Gain	Gp		48		dB
Gain Flatness	Delta Gp 1		+/- 3		dB
Input VSWR (at 50 ohm)	S11			2:1	Ratio
Harmonics	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC		28		VDC
Class of Operation	C		AB		Class
Power Consumption (at rated output)	Pc			300	Watt
Input Power	Pin			5	dBm

### 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			95	%
Vibration/Shock	VI /SH		Normal Truck Transport		-

### MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		6.30 × 4.72 × 0.94		Inches
Weight	Wt.		1		kg
Connectors In/Out	RF Conn		SMA-Female / SMA-Female		-
Cooling (Need to adapt heat sink )	Th		Fan Cooling		-
Control mode	CM		EN +5V		-
Power/Control Supply Connector	PCON		/W2- Male		-