

# LINEAR PULSED POWER AMPLIFIER

**Model – MP5.25.9G544850**

## 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 **5.9 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 warranty.



### Features

Pulsed operation  
High Pk. Output Power  
High Gain  
High Reverse Isolation  
Built-in Protection  
Enable/Disable input (ground to disable)

### Indicator options

DC Power  
Temp Fault

### Protections

Thermal Overload  
Over Voltage  
Reverse Polarity

## ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	5200		5900	MHz
Output Power Pk	Psat		300		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	VDC	49	50	51	VDC
Average Current at 300 watts @ 10% DC	Current		4		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		7		dB
Large Signal Gain	Lsg		48		dB
Max Load VSWR @ 300 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		8.75 x 6.0 x 1.2		Inches
Weight	Wt.		2		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling	Th		Heat sink required		-

## 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

