

LINEAR PULSED POWER AMPLIFIER

Model – MP9.49.5G575750

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 **9.5 GHz**. 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, this product comes with an industry leading warranty.

Features	Indicator options	Protections
Pulsed operation	DC Power	Thermal Overload
High Pk. Output Power	Temp Fault	Over Voltage
High Gain		Reverse Polarity
High Reverse Isolation		
Built-in Protection		
Enable/Disable input (ground to disable)		
TTL pulse input		

500 watts 9400 to 9500 MHz 50 VDC

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	9400		9500	MHz
Output Power Pk	Psat	500	550		Watt
Duty Cycle	Dc		5	10	%
Small Signal Gain	Gp		57		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 500 watts @ 10% DC	Current		3		Amps
Pulse Droop	Pd		0.5	1.0	dB
Switching time	St		100		ns
Large Signal Gain	Lsg		53		dB
Max Load VSWR @ 500 Watts	ML		6:1		Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	-20		+70	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		8.50 x 6.0 x 1.25		Inches
Weight	Wt.		2		lbs.
Connectors In/Out	RF Conn		SMA/N		-
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

