

LINEAR WIDEBAND POWER AMPLIFIER

Model – AP5.45.9G6160AC

General Description:

Elite RF's AP Series amplifier is a wideband power amplifier designed for pulsed signals fabricated on GaN process and can operate up to **5900 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, this product comes with an industry leading warranty.



Features

Wide Freq. Range
High Output Power
High Gain
2U- 19" rack mount
Connectors on front panel
Air cooled

Protections

Thermal Overload
Over Voltage
High VSWR

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	5400		5900	MHz
Output Power Pk	Psat		1200		Watt
Average Power	Pavg		100	120	Watt
Small Signal Gain	Gp		60		dB
Gain Flatness	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		Ratio
Duty Cycle	DC		5	10	%
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
AC Operating Voltage	Opv	100	120	240	VAC
AC Power at 1200 watts PK 10% DC	Pd		250		Watt
Class of Operation	C		AB		Class
Pulse Width	PW		50	100	usec
Large Signal Gain	Lsg		58		dB
Max Load VSWR @ 1000 Watts	ML		6: 1		Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Temperature	Tc	0		+50	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 24 x 3.5		Inches
Weight	Wt.		35		lbs.
Connectors In/Out	RF Conn		N-Type		-
Cooling	Th		Forced air cooling		-

OPTIONS

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

Mechanical Drawings

