

# LINEAR WIDEBAND POWER AMPLIFIER

**Model – AP5.45.9G6155AC-W**

## General Description:

Elite RF's AP Series amplifier is a wideband power amplifier designed for pulsed signals fabricated on LDMOS 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  
Water 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		5000		Watt
Average Power	Pavg		20	30	Watt
Small Signal Gain	Gp		60		dB
Gain Flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
Duty Cycle	DC		0.5	1	%
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
AC Operating Voltage	Opv	100	120	240	VAC
AC Average Power	Pd		1000		Watt
Class of Operation	C		AB		Class
Pulse Width	PW		16	50	usec
Large Signal Gain	Lsg		57		dB
Max Load VSWR 5000 Watts pk	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

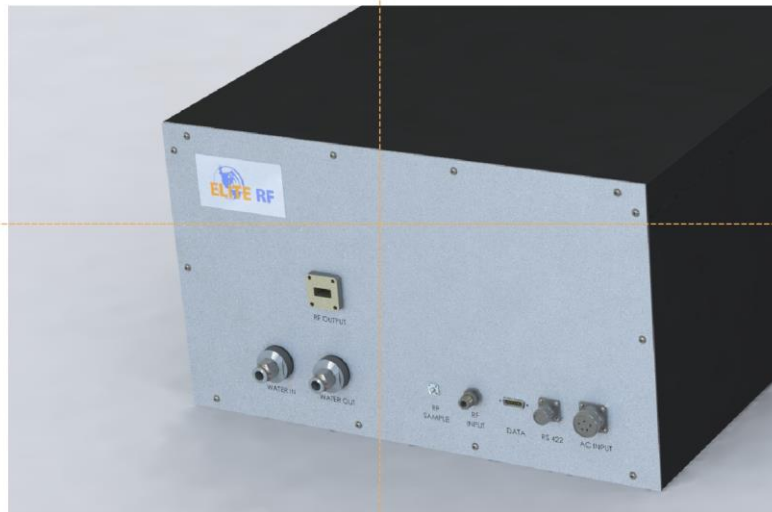
Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		24 x 24 x 14		Inches
Weight	Wt.		120		lbs.
Connectors In/Out	RF Conn		7/16 Din-Type		-
Cooling	Th		Water cooled		-

## 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

### 5 KW Pk High Power / 5.4- 5.9 GHz System Back View



Amplifier unit: 24" w x 24" d x 14" h

Water cooled system

