LINEAR WIDEBAND POWER AMPLIFIER

Model – AP2.82.9G5750AC

500 watts Pk 2.8 to 2.9 GHz 100- 240 VAC

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 **2900 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	Protections
Wide Freq. Range	Thermal Overload
High Output Power	Over Voltage
High Gain	High VSWR
2U- 19" rack mount	

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	2.8		2.9	GHz
Output Power Pk	Psat		500		Watt
Average Power	Pavg		25	50	Watt
Small Signal Gain	Gp		50		dB
Gain Flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
Duty Cycle	DC		1	10	%
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
AC Operating Voltage	Opv	100	120	240	VAC
AC Power at 500 watts Pk	Pd		250		Watt
Class of Operation	C		AB		Class
Pulse Width	PW		16	100	usec
Large Signal Gain	Lsg		48		dB
Max Load VSWR @ 500 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		

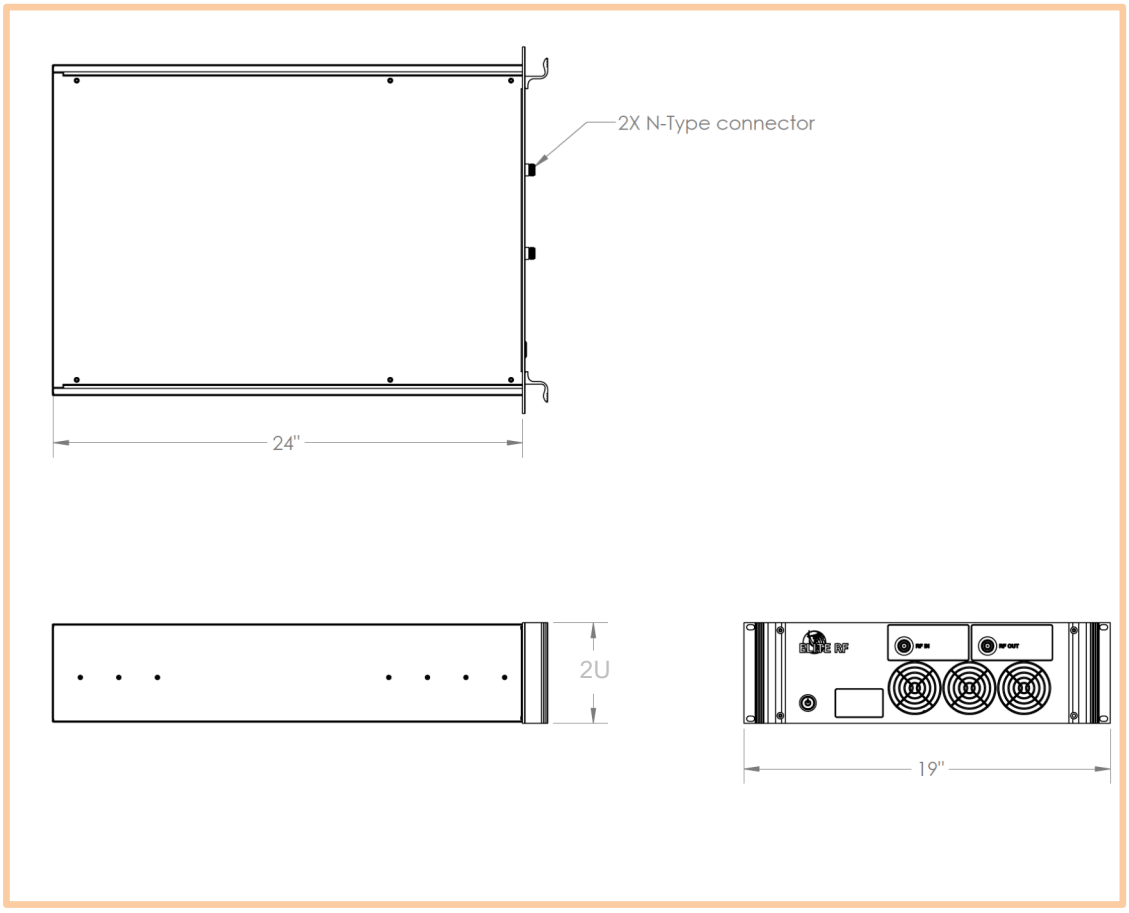
MECHANICAL CHARACTERISTICS

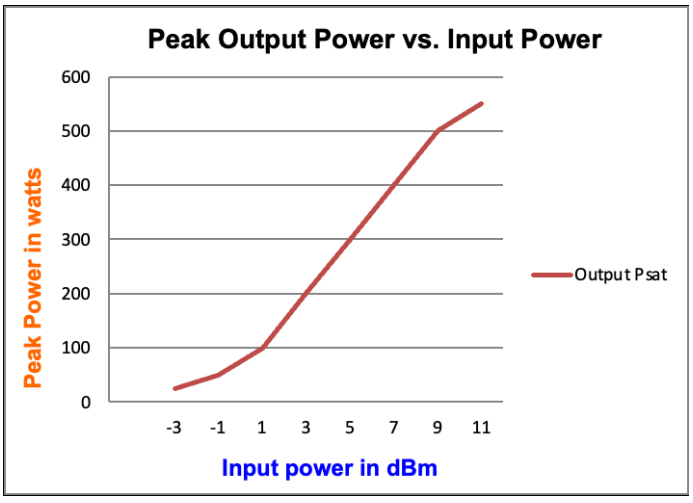
Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		19 x 24 x 3.5		Inches
Weight	Wt.		35		lbs.
Connectors In/Out	RF Conn		N-Type		-
Cooling	Th		Forced air cooling		-

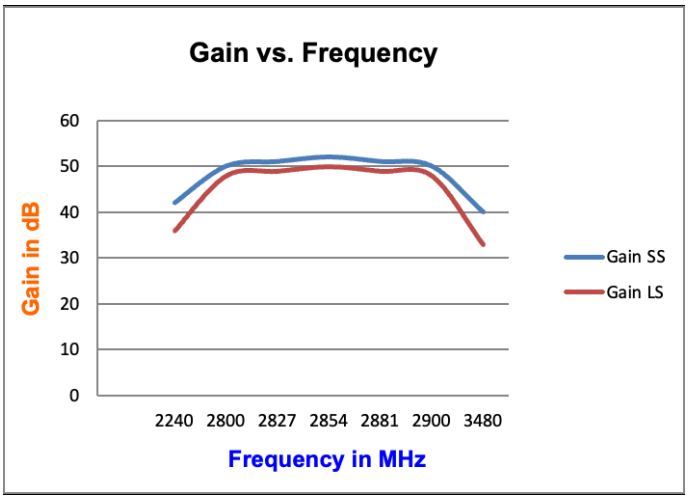
OPTIONS

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







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Order or email us on-line at www.eliterf.com

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Specifications subject to change,
consult sales for latest information