

# LINEAR WIDEBAND POWER AMPLIFIER

**Model – AP420440M6460AC**

## 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 **440 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

High Output Power  
High Gain  
SNMP: Enable, Temp, PS indication  
2U- 19" rack mount  
Built-in Protection thru Hybrid  
Connectors on front panel  
Air output through sides/front panel  
Low bias on final devices for output noise reduction  
SMA Sample Port of reverse hybrid load port

## Protections

Thermal Overload  
Over Voltage  
High VSWR

## ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	420		440	MHz
Output Power Pk	Psat	2500	3000		Watt
Average Power	Pavg	300	300	900	Watt
Small Signal Gain	Gp	55	60		dB
Gain Flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
Duty Cycle	DC	0	10	30	%
Harmonics	H		-20		dBc
Spurious Signals	Spur	-50	-60		dBc
AC Operating Voltage	Opv	210	230	250	VAC
AC Power at 3000 watts PK 30% DC	Pd		1200		Watt
Class of Operation	C		AB		Class
Pulse Width	PW	1	100	150	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		+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		

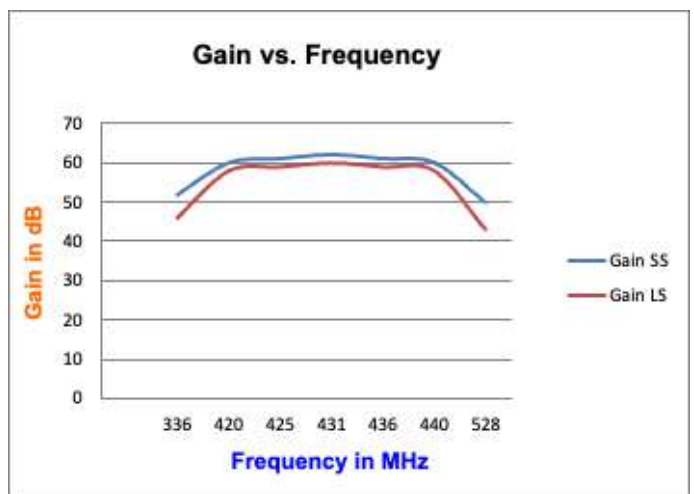
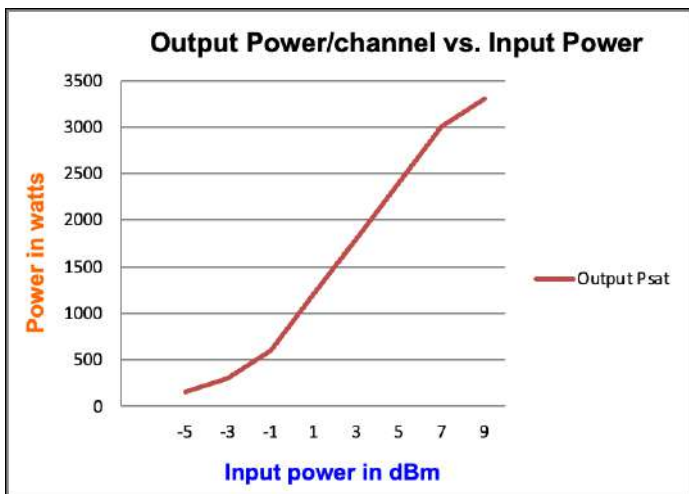
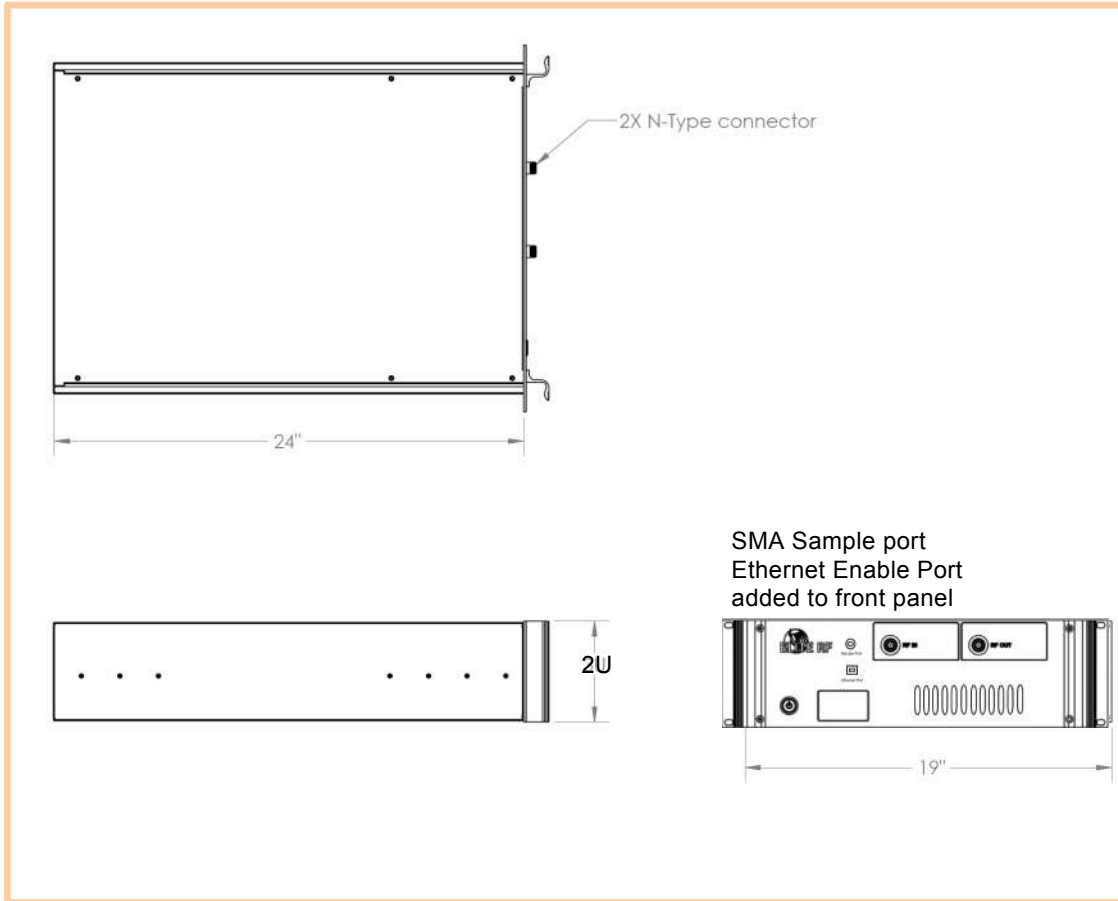
## MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		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



Elite RF LLC

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 Specifications subject to change,  
 consult sales for latest information