

LINEAR WIDEBAND POWER AMPLIFIER

Model – AA050500M3435AC-8

General Description:

Elite RF's AA Series amplifier is a wideband power amplifier designed for CW signals fabricated on LDMOS process and can operate up to **500 MHz**. These amplifiers offer high power density, low thermal resistance, and wideband performance. They can be widely used for military and commercial applications. This system has eight independent amplifiers in one unit.

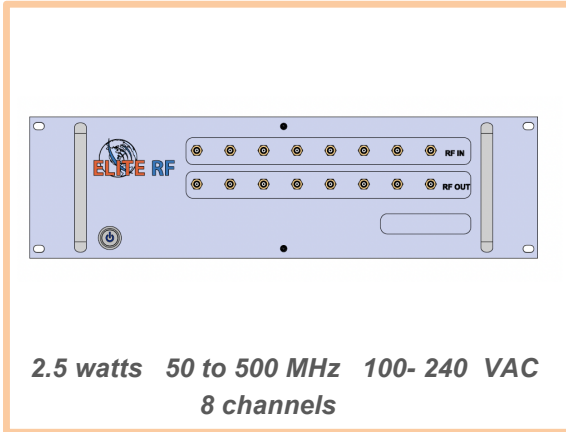
Like all Elite RF amplifiers, this product comes with an industry leading **5-year warranty**.

Features

Wide Freq. Range
High Output Power
High Gain
High Reverse Isolation
Built-in Protection
8- independent amplifiers

Protections

Thermal Overload
Over Voltage



ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	50		500	MHz
Output Power CW	Psat		4		Watt
Output Power at 1 dB Compression	P1dB		2.5		Watt
Small Signal Gain	Gp		35		dB
Gain Flatness	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		Ratio
IMD @ 250 MHz @ 1 watt/tone / 1 MHz spacing	IP3		42		dBm
Harmonics	H		-20		dBc
Spurious Signals	Spur		-50		dBc
Operating Voltage	Opv	100	120	240	VAC
AC Power at 2.5 watts per channel	Pd		300		Watt
Class of Operation	C		A		Class
Noise Figure	NF		3		dB
Large Signal Gain	Lsg		34		dB
Max Load VSWR @ 5 Watts	ML		6:1		Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case 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

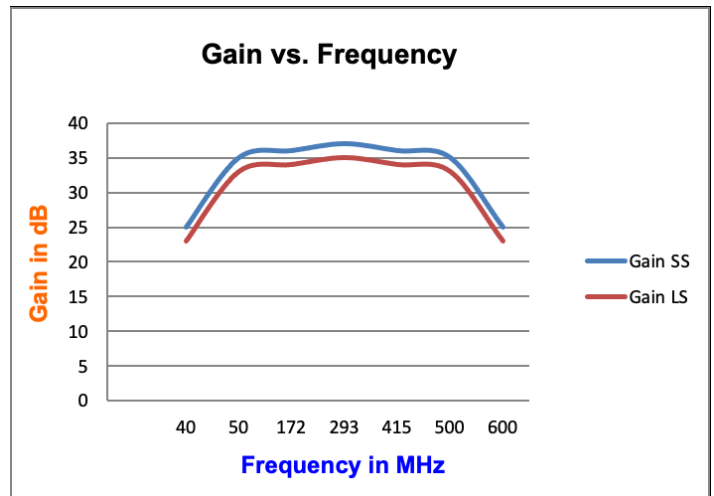
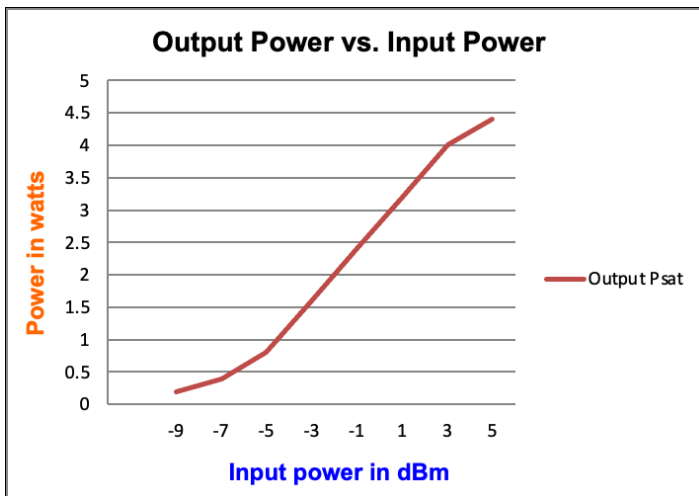
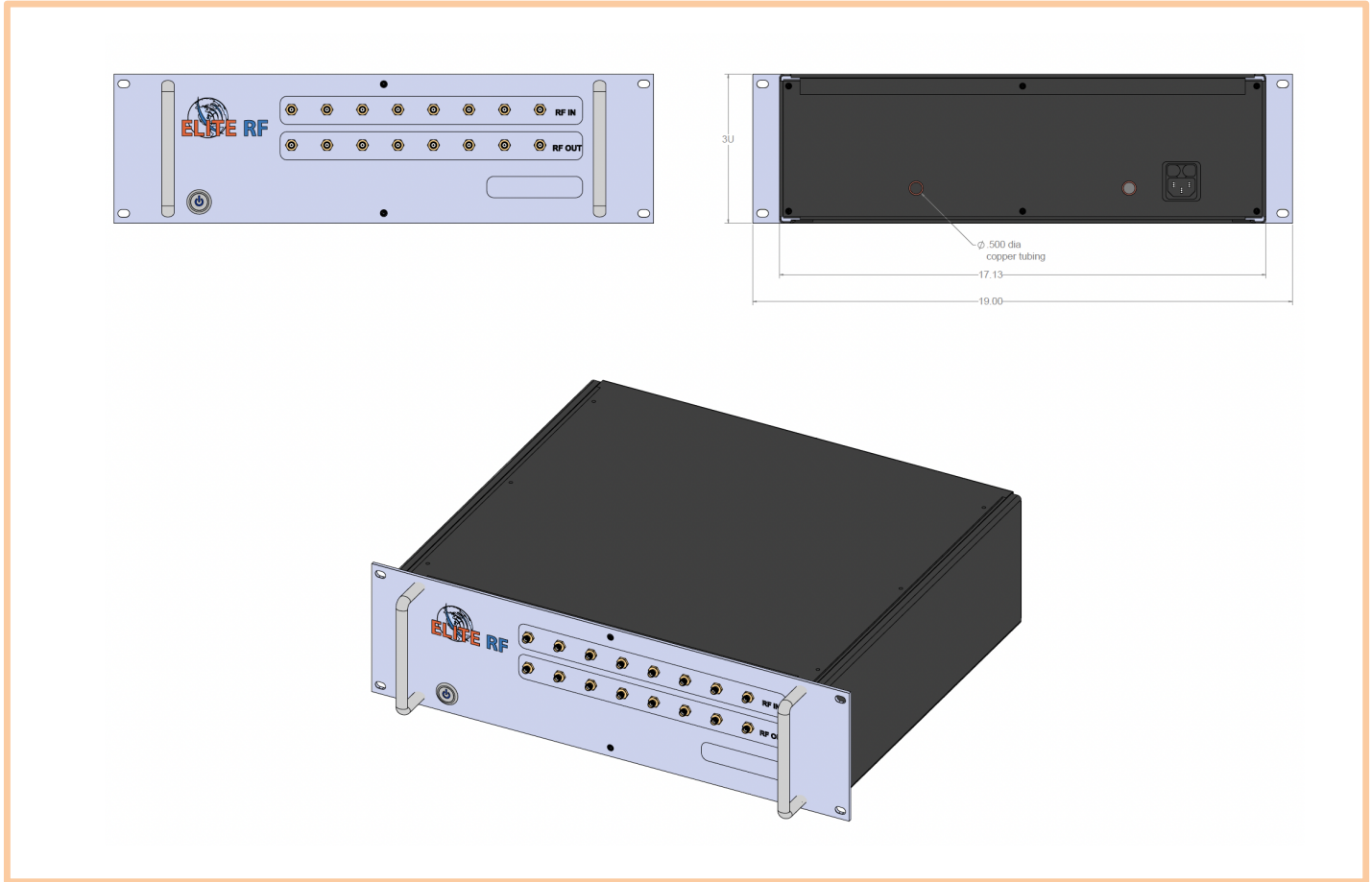
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		19 x 15 x 5.25		Inches
Weight	Wt.		25		lbs.
Connectors In/Out	RF Conn		SMA-Type		-
Cooling	Th		Water 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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Call us for customer service/technical support at: 847-592-6350 Order or email us on-line at www.eliterf.com

Rev3 07/18/2022: Specifications subject to change, consult sales for latest information

Product Compliance:
ECCN: EAR99
USHTS: 8541290075