LINEAR WIDEBAND POWER AMPLIFIER

Model – AP905925M6460AC

2500 watts Pk 905 to 925 MHz 210- 250 VAC

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 **925 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	905		925	MHz
Output Power Pk	Psat	2000	2500		Watt
Average Power	Pavg	200	200	750	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 2500 watts PK 30%	Pd		1000		Watt
DC Class of Operation	C		AB		Class
Pulse Width	PW	1	100	150	usec
Large Signal Gain	Lsg		58		dB
Max Load VSWR @ 2500 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		

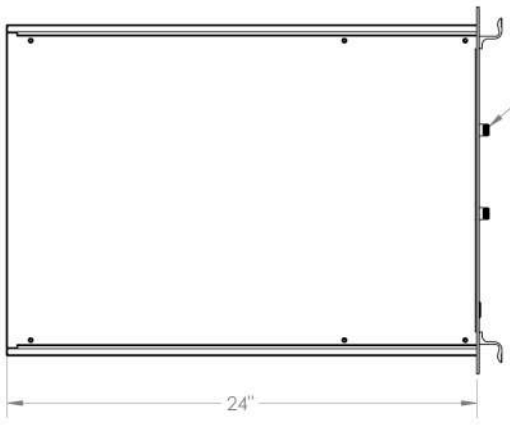
MECHANICAL CHARACTERISTICS

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		-

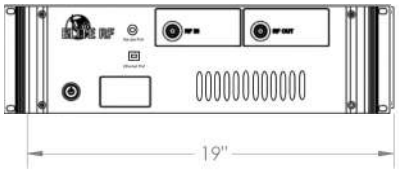
OPTIONS

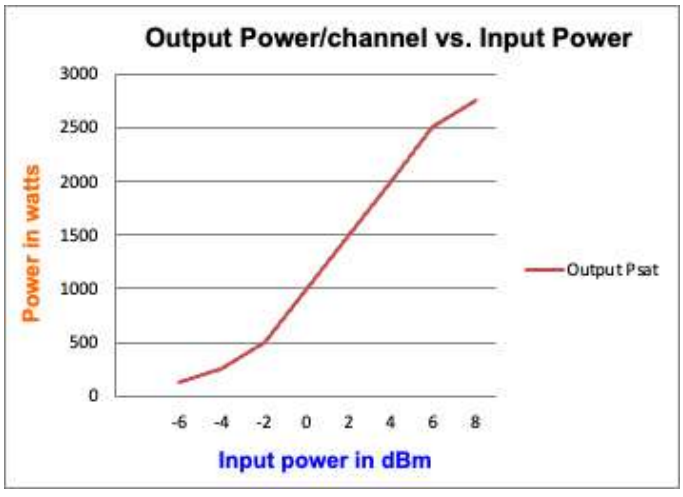
Parameter	Add suffix to part number
Heat sink and fans	N/A
Isolator with forward and reverse voltage outputs	N/A
TTL Input Trigger	N/A

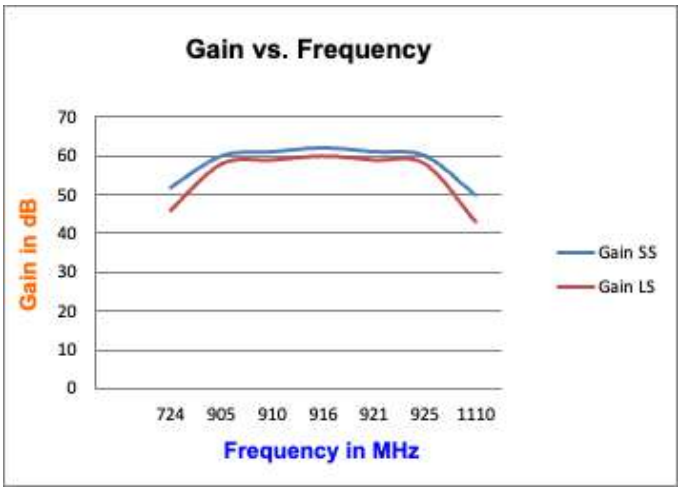
Mechanical Drawings



SMA Sample port
Ethernet Enable Port
added to front panel







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Specifications subject to change,
consult sales for latest information