

LINEAR WIDEBAND POWER AMPLIFIER

Model – AP220230M6460AC

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 **230 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 **3-year warranty**.



Features

Wide Freq. Range
High Output Power
High Gain
2U- 19" rack mount
Built-in Protection thru Hybrid or circulator
Connectors on front panel
Air output through sides/front panel
Low bias on final devices for output noise reduction

Protections

Thermal Overload
Over Voltage
High VSWR

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	220		230	MHz
Output Power Pk	Psat		3000		Watt
Average Power	Pavg		300	900	Watt
Small Signal Gain	Gp		60		dB
Gain Flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
Duty Cycle	DC		10	30	%
Harmonics	H		-20		dBc
Spurious Signals	Spur		-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		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

