

LINEAR WIDEBAND POWER AMPLIFIER

Model – AP215225M6050AC

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 **225 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
- Isolator Built-in Protection
- 30 dBc Sample port
- Connectors on front panel
- Air output through sides/front panel

Protections

- Thermal Overload
- Over Voltage
- High VSWR

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	215		225	MHz
Output Power Pk	Psat		1000		Watt
Average Power	Pavg		100	300	Watt
Small Signal Gain	Gp		50		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	100	120	240	VAC
AC Power at 1000 watts PK 10% DC	Pd		250		Watt
Class of Operation	C		AB		Class
Pulse Width	PW		100	150	dB
Large Signal Gain	Lsg		48		dB
Max Load VSWR @ 1000 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

