

LINEAR WIDEBAND POWER AMPLIFIER

Model – AP428438M6370AC-E

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 **438 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
Connectors on front panel
Air output through sides/front panel
Low bias on final devices for output noise reduction
SMA Sample

Protections

Thermal Overload
Over Voltage
High VSWR

2000 watts Pk 428 to 438 MHz 200- 240 VAC

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	428		438	MHz
Output Power Pk	Psat	1500	2000		Watt
Average Power	Pavg		200	600	Watt
Small Signal Gain	Gp	72	74		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	200	220	240	VAC
AC Power at 2000 watts PK 30%	Pd		1500		Watt
DC Class of Operation Pulse	C		AB		Class
Width	PW	1	100	150	usec
Large Signal Gain	Lsg		70		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

