

LINEAR WIDEBAND POWER AMPLIFIER

Model – AP420440M6070AC-ECD

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 **440 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 **2-year warranty**.



Features

- Air flow back to front
- 2U – 19 " cabinet
- Sample ports, Fwd
- Ethernet port
- VSWR protection via circulator
- Transmit on/off control
- Amplifier status
- Temp status
- Power supply status
- Fwd det voltage status
- Rev det voltage status
- VSWR fault status

Protections

- Thermal Overload
- Over Voltage
- High VSWR

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	420		440	MHz
Output Power Pk	Psat	900	1000		Watt
Average Power	Pavg		250	300	Watt
Small Signal Gain	Gp	72	75		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	100	120	240	VAC
AC Power at 1000 watts PK 30%	Pd		500		Watt
DC Class of Operation	C		AB		Class
Pulse Width	PW	1	100	150	usec
Large Signal Gain	Lsg		70		dB
Max Load VSWR @ 1000 Watts	ML		open		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.		45		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

