

LINEAR WIDEBAND POWER AMPLIFIER

Model – AP223233M5665AC-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 **233 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

Air flow back to front
2U – 19 " cabinet
Forward Sample port
Ethernet port
VSWR protection via circulator
Transmit on/off control
Amplifier status
Temp monitor
Power supply monitor
VSWR fault status

Protections

Thermal Overload
Over Voltage
High VSWR



ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	223		233	MHz
Output Power Pk	Psat	300	400		Watt
Average Power	Pavg	30	40	120	Watt
Small Signal Gain	Gp	68	70		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 400 watts PK 30% DC	Pd		200		Watt
Class of Operation	C		AB		Class
Pulse Width	PW	1	100	150	usec
Large Signal Gain	Lsg		65		dB
Max Load VSWR @ 400 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		19.0 x 24.0 x 3.5		Inches
Weight	Wt.		20.5		kg
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

