



General Description:

This system is a broadband power amplifier designed for CW/Digital/Pulse/AM signals and general-purpose amplification. Using advanced high power density LDMOS semiconductor devices, these high-performance amplifiers achieve high efficiency, high gain, and wide dynamic range. Like all Elite RF amplifiers, the product comes with an industry leading **5-year warranty**

Features

118- 137 MHz
400- watts PEP
100- watts CW
Class AB
100/240 VAC
12.5 watts avg. input power
Output levels of 25/50/75/100 watts
AM Carrier
LPF for Harmonic Rejection

Protections

Thermal Overload
Internally Fused
VSWR Protection

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	118		137	MHz
Output Power PEP	Psat		400		Watt
Output Power CW	Pcw		100		Watt
Input power	Inp		12.5		Watt
Gain Flatness at Psat	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		dB
IMD	IP3		N/A		dBm
Small Signal Gain Flatness	Delta Gp 2		+/- 2		dB
Harmonics at 100 Watts	H	-70	-80		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage (1 phase)	VAC		100 - 240		VAC
AC Input Power at 100 watts CW	AC input		300		Watts
Class of Operation	C		AB		Class
AM Distortion	AMd			10	%
Gain Adjustment Range	GA		3, 6, 7.5, 9		dB

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case 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

Dimensions	Symbol	Min	Typ	Max	Unit
Dimensions (rack mount)	Dim		19 x 15 x 5.25	3U	Inches
Weight	Wt.		30		lbs.
Connectors	RF Conn		N - type		-
Cooling	Fans		Forced Air		-

Elite RF LLC

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