



Optional front touch panel allows complete control of all amplifier functions



General Description:

This system is a broadband power amplifier designed for CW/Digital/Pulse signals and general-purpose amplification. Using advanced high power density LDMOS and GaN 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 **3-year warranty**

Features

118- 144 MHz
800 watts
60 dB gain
Class AB
100/240 VAC
Gain Control
Power Monitor
Remote Control
V/C/T Monitor

Indicator options

Forward Power
Reverse Power
VSWR Fault
Temp Fault
Gain Settings
High Power
Voltage
Current
Temp

Protections

Thermal Overload
Internally Fused
Over Current
Over Voltage
Over Power
Over VSWR

Red: Optional

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	118		144	MHz
Output Power PEP	Psat		1000		Watt
Output Power CW	P1dB		200		Watt
Small Signal Gain	Gp		60		dB
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 200 Watts	H		-40		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage (1 phase)	VAC		100 - 240		VAC
AC Input Power at 200 watts CW	AC input		750		Watts
Class of Operation	C		AB		Class
Noise Figure	NF		N/A		dB
Gain Adjustment Range	GA		30		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 3.5	2U	Inches
Weight	Wt.		30		lbs.
Connectors	RF Conn		N - type		-
Cooling	Fans		Forced Air		-

Model Options:
Green: Option available
Red Option unavailable

F: V/C/T Monitor P: Power Monitor G: Gain Control E: Remote Ethernet Control I: IEEE488 R: RS-232

Elite RF LLC

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