



General Description:

This system has four independent 500 watt modules mounted on a water-cooled cold plate. The power amplifiers are designed for CW/Digital/Pulse 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

- 504 – 508 MHz
- Four- 500-watt modules
- 18 dB gain
- Class AB
- 50 VDC
- VSWR: 5:1 max at full power
- N-type input/output connector
- Water input and output: copper tube 0.38" OD

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	504		508	MHz
Output Power CW	Psat		600		Watt
Output Power at 1 dB Compression	P1dB		N/A		Watt
Small Signal Gain	Gp		20		dB
Gain Flatness @ Psat	Delta Gp 1		+/- .5		dB
Input VSWR	S11		2:1		-
IMD	IP3		N/A		dBm
Harmonics at 500 Watts	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	48	50	51	VDC
Current at 500 watts	Current		20		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		N/A		dB
Max Load VSWR @ 500 watts	Lm			5:1	Ratio
Large signal gain	Lgs		18		dB

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	-20		+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 of system	Dim		24 x 7 x 3		Inches
Weight	Wt.		20		lbs.
Connectors In/Out	RF Conn		N / N		-
Cooling	Th		Cold plate		-