



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 warranty.

Features	Indicator options	Protections
1.2 – 1.4 GHz	DC Power	Thermal Overload
400 watts	Temp Fault	Over Voltage
50 dB gain		Reverse Polarity
Class AB		
48 VDC		
On/Off Enable- Ground to disable amplifier		

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	1.2		1.4	GHz
Output Power CW	Psat		400		Watt
Output Power at 1 dB Compression	P1dB		200		Watt
Small Signal Gain	Gp		52		dB
Gain Flatness @ Psat	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD	IP3		N/A		dBm
Harmonics at 200 Watts	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	46	47	48	VDC
Current at 200 watts	Current		10		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		N/A		dB
Large Signal Gain	Lsg		50		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	Dim		8.5 x 6 x 1		Inches
Weight	Wt.		3		lbs.
Connectors In/Out	RF Conn		SMA / N		-
Cooling	Th		Heatsink required		-