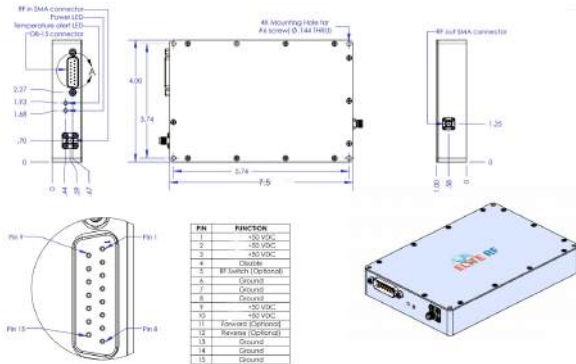


### General Description:

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

1.2 – 1.4 GHz  
50 watts  
48 dB gain  
Class AB  
50 VDC  
On/Off Enable- Ground to disable amplifier  
Optional heat sink and fan

### Indicator options

DC Power  
Temp Fault

### Protections

Thermal Overload  
Over Voltage  
Reverse Polarity

## ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	1.2		1.4	GHz
Output Power CW	Psat		50		Watt
Output Power at 1 dB Compression	P1dB		N/A		Watt
Small Signal Gain	Gp		48		dB
Gain Flatness @ Psat	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		-
Duty Cycle @ 500 us pulse	DC		10	15	%
Harmonics at 50 Watts	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	49	50	51	VDC
Average Current at 50 watts @ 12% DC	Current		0.5		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		7		dB
Large Signal Gain	Lsg		47		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		7.5 x 4.0 x 1.0		Inches
Weight	Wt.		1		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling Required	Th		HS & fan		-