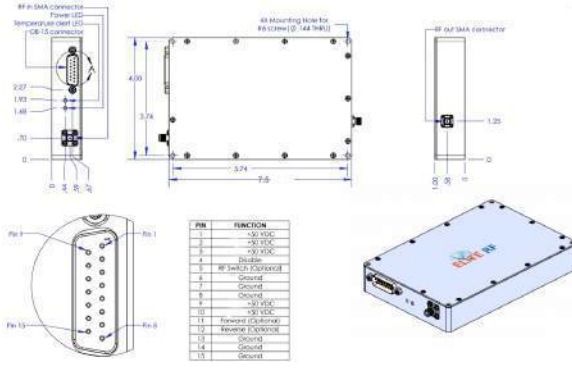


General Description:

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
0.5 – 2.5 GHz	DC Power	Thermal Overload
50 watts	Temp Fault	Over Voltage
45 dB gain		Reverse Polarity
Class AB		
50 VDC		
On/Off Enable- Ground to disable amplifier		

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	0.5		2.5	GHz
Output Power CW	Psat		50		Watt
Output Power at 1 dB Compression	P3dB		25		Watt
Small Signal Gain	Gp		45		dB
Gain Flatness @ Psat	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD @ 1.5 GHz @ 30 dBm/ tone	IP3		55		dBm
Harmonics at 50 Watts	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	48	50	51	VDC
Current at 50 watts	Current		4		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		5		dB
Max Load VSWR @ 100 watts	Lm			3:1	Ratio
Large signal gain	Lgs		40		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 x 1		Inches
Weight	Wt.		2		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling	Th		Heatsink required		-