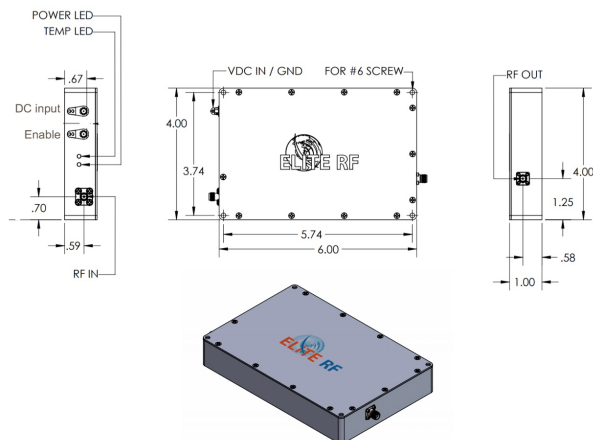




General Description:

This system is a broadband power amplifier designed for Pulsed signals and general-purpose amplification. Using advanced high power density 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 **5-year warranty**

Features	Indicator options	Protections
8.0 - 11.0 GHz	DC Power	Thermal Overload
100 watts	Temp Fault	Over Voltage
48 dB gain		Reverse Polarity
Class AB		
Duty Cycle: 10%		
Pulse width: 100 us		
28 VDC		
On/Off Enable- Ground to disable amplifier		

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	8.0		11.0	GHz
Output Power CW	Psat		100		Watt
Output Power at 1 dB Compression	P1dB		-		Watt
Small Signal Gain @ 9.5 GHz	Gp		52		dB
Gain Flatness @ Psat	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD	IP3		-		dBm
Harmonics at 100 Watts	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	27	28	29	VDC
Average Current at 100 watts @ 10% DC	Current		2		Amps
Class of Operation	C		AB		Class
Duty Cycle @ 100 us max.	DC		5	10	%
Large Signal Gain @ 10 watts	Lsg		48		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		6.0 x 4.0 x 1.0		Inches
Weight	Wt.		1		lbs.
Connectors In/Out	RF Conn		SMA/2.92 mm		-
Cooling	Th		Heatsink required		-