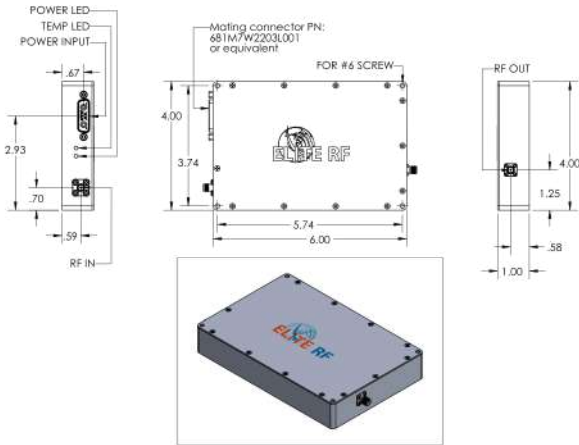


## Solid State Wideband Power Amplifier



### General Description

This is a broadband power amplifier designed for Pulsed signals. 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 **5-year warranty**.

#### Features

8 – 11 GHz  
100 watts: PW: 100 uS /10% duty cycle  
48 dB gain  
Class AB  
28 VDC  
On/Off Enable

#### Indicator options

DC Power  
Temp Fault

#### Protections

Thermal Overload  
Over Voltage  
Reverse Polarity

### Amplifier Options

TTL Input RF Switch input  
Forward power detect output  
Reverse power detect output  
Temp Alarm output  
Output Isolator VSWR protection

Note: Size is 6" x 4" x 1", Dc Feed-thru for voltage connection

Rev 1 - 11/1/18

Specifications subject to change, consult sales for latest information

### ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	8		11	GHz
Output Power CW	Psat		100		Watt
Pulse width	PW		100		uS
Duty Cycle	DC		10		%
Gain Flatness at Psat	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD	IP3		N/A		dBm
Small Signal Gain Flatness	Delta Gp 2		+/- 3.0		dB
Harmonics at 50 Watts	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	27	28	29	VDC
Average Current at 100 watts	Current		2		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		N/A		dB
Max Load VSWR	Ld		3:1		VSWR
Temperature Shutdown	Ts		85 deg. C		Case temp.

### ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	-20		+70	Deg C
Storage Temperature	Tstg	-55		+100	Deg C
Relative Humidity (non-condensing)	RH			95	%
Altitude	ALT			10,000	Feet
Vibration/Shock	VI /SH		Normal Truck Transport		

### MECHANICAL CHARACTERISTICS

Dimensions	Symbol	Min	Typ	Max	Unit
Dimensions (rack mount)	Dim		6" x 4" x 1"		Inches
Weight	Wt.		2		lbs.
Connectors	RF Conn		SMA		-
DC Connection	Dc Conn		Feed-thru		-
Cooling	Th		Heatsink required		-

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