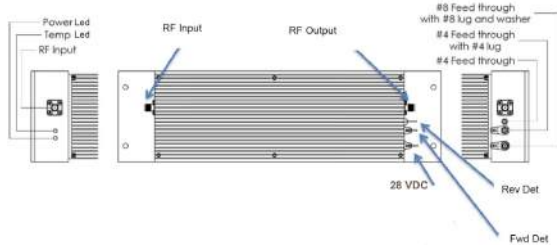


**General Description:**

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 **3-year warranty**



**Features**

800 - 900 MHz  
75 watts  
50 dB gain  
Class AB  
28 VDC  
Fwd power: -11vdc @ 50 watts @ 850 MHz  
Rev power: -11vdc @ 50 watts @ 850 MHz  
Isolator

**Indicator options**

DC Power  
Temp Fault

**Protections**

Thermal Overload  
Over Voltage  
Reverse Polarity

**ELECTRICAL SPECIFICATIONS**

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	800		900	MHz
Output Power CW	Psat		75		Watt
Output Power at 1 dB Compression	P1dB		40		Watt
Small Signal Gain	Gp		50		dB
Gain Flatness @ Psat	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD @ 850 MHz @ 30 dBm/ tone	IP3		50		dBm
Harmonics at 2 Watts	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	27	28	29	VDC
Current at 50 watts	Current		6		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		5		dB
Large Signal Gain @ 65 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		11.0 x 3.1 x 2.3		Inches
Weight	Wt.		3		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling	Th		Heatsink included		-