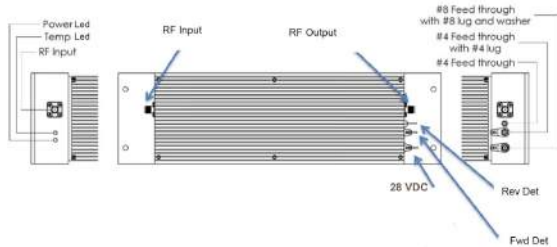


General Description:

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

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		-