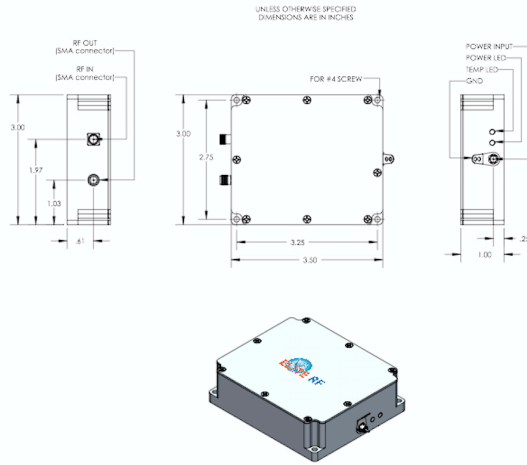


General Description:

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 **5-year warranty**



Features

5.9 – 18 GHz
18 dBm
55 dB gain
Class A
15 VDC

Indicator options

DC Power
Temp Fault

Protections

Thermal Overload
Over Voltage
Reverse Polarity

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	5.9		18	GHz
Output Power CW	Psat		21		dBm
Output Power at 1 dB Compression	P1dB		18		dBm
Small Signal Gain	Gp		55		dB
Gain Flatness @ P1dB	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD @ 12 GHz @ 10 dBm/ tone	IP3		28		dBm
Harmonics at 21 dBm	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	14	15	16	VDC
DC Current	Current		600		mA
Class of Operation	C		A		Class
Noise Figure	NF		5		dB
Gain Adjustment Range	GA		N/A		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		3.5 x 3.0 x 1.0		Inches
Weight	Wt.		1		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling	Th		Heatsink required		-