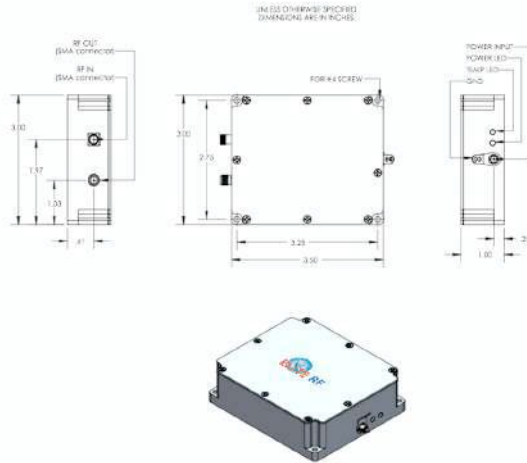


General Description:

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	Indicator options	Protections
40 – 3000 MHz	DC Power	Thermal Overload
18 dBm	Temp Fault	Over Voltage
33 dB gain		Reverse Polarity
Class A		
15 VDC		

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	40		3000	MHz
Output Power CW	Psat		21		dBm
Output Power at 1 dB Compression	P1dB		18		dBm
Small Signal Gain	Gp	45 @ 40 MHz	33	27 @ 3 GHz	dB
Gain Flatness	Delta Gp 1		N/A		dB
Input VSWR	S11		2:1		-
IMD @ 2 GHz @ 10 dBm/ tone	IP3		31		dBm
Harmonics at 18 dBm	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	14	15	16	VDC
DC Current	Current		200		mA
Class of Operation	C		A		Class
Noise Figure	NF		0.7		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		Convection		-

Rev 3 4/1/2023:
Specifications subject to change,
consult sales for latest information