



Solid State Wideband Power Amplifier

Model – MB3.13.6G504830

3100 - 3600 MHz

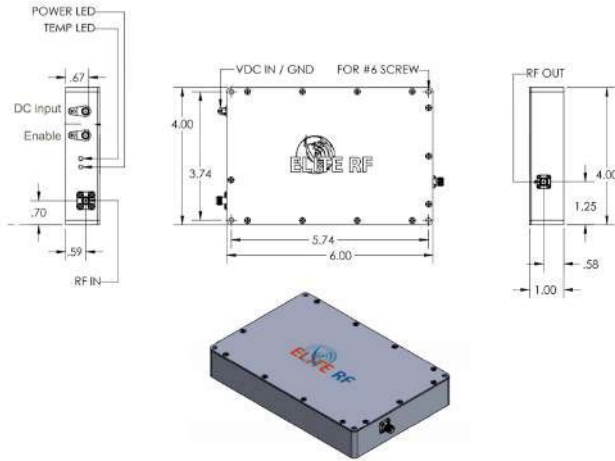
100 watts

Power Amplifier

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
3.1 - 3.6 GHz	DC Power	Thermal Overload
100 watts	Temp Fault	Over Voltage
54 dB gain		Reverse Polarity
Class AB		
30 VDC		
On/Off Enable- Ground to disable amplifier		

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	3.1		3.6	GHz
Output Power CW	Psat		100		Watt
Output Power at 1 dB Compression	P1dB		-		Watt
Small Signal Gain	Gp		54		dB
Gain Flatness @ Psat	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD @ 3.3 GHz @ 30 dBm/ tone	IP3		50		dBm
Harmonics at 50 Watts	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	29	30	31	VDC
Current at 100 watts	Current		6	8	Amps
Class of Operation	C		AB		Class
Noise Figure	NF		5		dB
Large Signal Gain	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		6.0 x 4.0 x 1.0		Inches
Weight	Wt.		1		lbs.
Connectors In/Out	RF Conn		SMA/2.92 mm		-
Cooling	Th		Heatsink required		-