



Solid State Wideband Power Amplifier

Model – MB3.13.6G504830

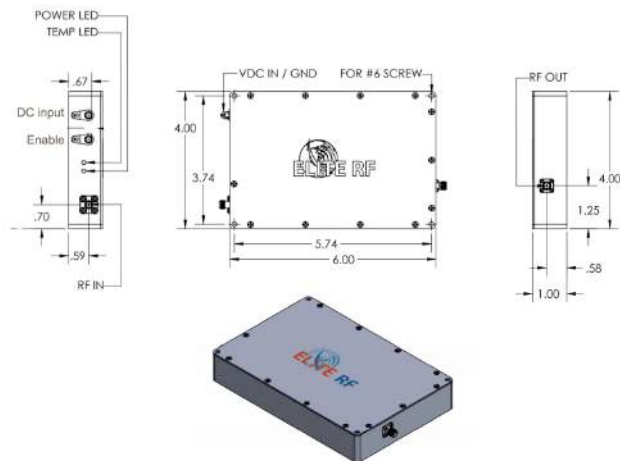
3100 - 3600 MHz

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 **3-year warranty**



Features

3.1 - 3.6 GHz
100 watts
54 dB gain
Class AB
30 VDC
On/Off Enable- Ground to disable amplifier

Indicator options

DC Power
Temp Fault

Protections

Thermal Overload
Over Voltage
Reverse Polarity

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		-