



# Solid State Wideband Power Amplifier

**Model – MB6.0012G444820**

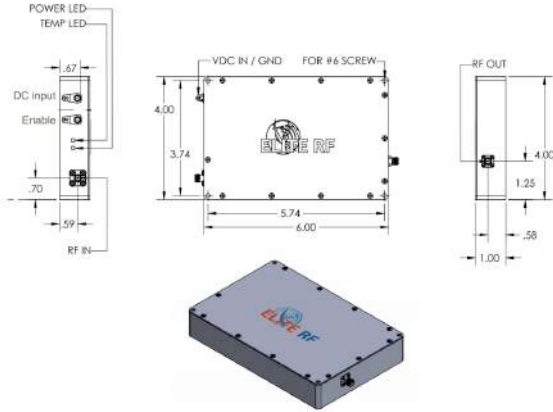
6.0 – 12.0 GHz

25 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

6.0 - 12.0 GHz  
25 watts  
53 dB gain  
Class AB  
20 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	6.0		12.0	GHz
Output Power CW	Psat		25		Watt
Output Power at 1 dB Compression	P1dB		-		Watt
Small Signal Gain	Gp	53 @ 6 GHz	56	55 @ 12 GHz	dB
Gain Flatness @ Psat	Delta Gp 1		+/- 3		dB
Input VSWR	S11		2:1		-
IMD @ 9 GHz @ 30 dBm/ tone	IP3		45		dBm
Harmonics at 25 Watts	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	19	20	21	VDC
Current at 25 watts	Current		5		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		5		dB
Large Signal Gain @ 20 watts	Lsg		50		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		-