

**Model – AB1.82.4G4750AC**

1.8 - 2.4 GHz

50 watts CW

Linear Power Amplifier

**Solid State Wideband 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**

1800-2400 MHz  
50 watts  
50 dB gain  
Class A  
100/240 VAC  
Circulator for VSWR Protection

**Protections**

Thermal Overload  
Input Overload  
VSWR

Rev 2: 4/1/23:  
Specifications subject to change,  
consult sales for latest information

**ELECTRICAL SPECIFICATIONS**

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	1.8		2.4	GHz
Output Power CW	Psat		100		Watt
Output Power at 1 dB Compression	P1dB		50		Watt
Small Signal Gain	Gp	45	50		dB
Gain Flatness at Psat	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		-
IMD	IP3		N/A		dBm
Small Signal Gain Flatness	Delta Gp 2		+/- 2		dB
Harmonics at 50 Watts	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage (1 phase)	VAC		100 - 240		VAC
AC Input Power	AC input		500		Watts
Class of Operation	C		AB		Class
Noise Figure	NF		N/A		dB
Gain Adjustment Range	GA		N/A		dB

**ENVIRONMENTAL CHARACTERISTICS**

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	0		+40	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**

Dimensions	Symbol	Min	Typ	Max	Unit
Dimensions (rack mount)	Dim		19 x 14.5 x 3.5	2U	Inches
Weight	Wt.		30		lbs.
Connectors	RF Conn		N - type		-
Cooling	Fans		Forced Air		-

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