

Solid State Wideband Power Amplifier



Model – AB0.11.0G5050AC

100 - 1000 MHz

120 watts

Linear 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 LD MOS 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

100- 1000 MHz
120 watts
50 dB gain
Class AB
100/240 VAC
Gain Control

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	100		1000	MHz
Output Power CW	Psat		120		Watt
Output Power at 1 dB Compression	P1dB		N/A		Watt
Small Signal Gain	Gp		50		dB
Gain Flatness at Psat	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD	IP3		N/A		dBm
Small Signal Gain Flatness	Delta Gp 2		+/- 3.0		dB
Harmonics at 100 Watts	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage (1 phase)	VAC		100 - 240		VAC
AC Input Power	AC input		600		Watts
Class of Operation	C		AB		Class
Noise Figure	NF		N/A		dB
Gain Adjustment Range	GA		20		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 15 x 3.5	2U	Inches
Weight	Wt.		20		lbs.
Connectors	RF Conn		N - type		-
Cooling	Fans		Forced Air		-

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