



LINEAR WIDEBAND POWER AMPLIFIER

Model – AB150250M5450AC



General Description:

Elite RF's AB Series amplifier is a wideband power amplifier designed for CW signals fabricated on LDMOS process and can operate up to 2 GHz. These amplifiers offer high power density, decade bandwidth performance, low thermal resistance, and wideband performance. They can be widely used for military and commercial applications. Like all Elite RF amplifiers, the product comes with an industry leading **5-year warranty**.

Features

- Freq** – 150 – 250 MHz
- Psat** – 250 Watts
- Gain** – 50 dB
- Class** – AB
- Voltage** – (100 – 240) VAC

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	150		250	MHz
Output Power CW	Psat		250		Watt
Output Power at 1 dB Compression	P1dB		N/A		Watt
Small Signal Gain	Gp		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 @ any 500 MHz band	Delta Gp 2		+/- 2		dB
Harmonics at 250 Watts	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage (1 phase)	VAC		100 - 240		VAC
AC Input Power @ 250 watts	AC input		700		Watt
Class of Operation	C		AB		Class
Noise Figure	NF		NA		dB
Max Load VSWR @ 250 Watts	Lm		10:1		Vswr

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

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions (rack mount)	Dim		19.0 x 15.0 x 3.5	2U	Inches
Weight	Wt.		20		lbs.
Connectors In/Out	RF Conn		N - type		-
Cooling	Fans		Forced Air		-

Rev 1 08/14/2020:
Specifications subject to change,
consult sales for latest information