

LINEAR WIDEBAND POWER AMPLIFIER

Model – AB055105M5650AC-4



General Description:

Elite RF's **AB Series** amplifier is a **4 channel** wideband power amplifier designed for CW signals fabricated on GaN on SiC process and can operate up to **105 MHz**. These amplifiers offer high power density, low thermal resistance, and wideband performance. They can be widely used for military and commercial applications.

Like all Elite RF amplifiers, this product comes with an industry leading warranty.

Features

4 - Channels
Equal phase and gain
80 watts per channel
High Gain
Gate input BNC
Interlock disable BNC
Built-in temp Protection
Air cooling

Protections

Thermal Overload
Over Voltage
High VSWR

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	55		105	MHz
Output Power CW	Psat		400		Watt
Output Power at 1 dB Compression	P1dB		100		Watt
Small Signal Gain	Gp		52		dB
Gain Flatness @ Psat	Delta Gp 1		+/- 2.5		dB
Input VSWR	S11		2:1		Ratio
IMD @ .1 GHz @ 10 watt/tone / 1 MHz spacing	IP3		56		dBm
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	Opv	100	120	240	VAC
AC Power at 400 watts	Pd		1200		Watt
Class of Operation	C		AB		Class
Gate Rise time	Rt		10		ns
Large Signal Gain	Lsg		50		dB
Max Load VSWR @ 400 Watts	ML		6:1		Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	0		+50	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		

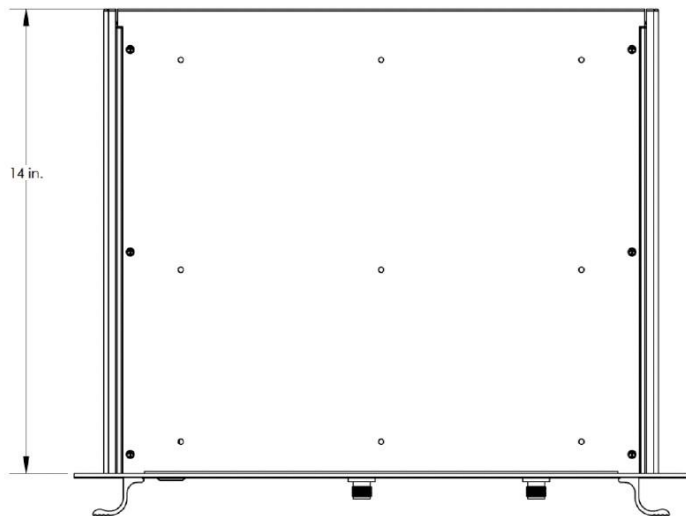
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		19 x 15 x 3.5		Inches
Weight	Wt.		25		lbs.
Connectors In/Out	RF Conn		N-Type		-
Cooling	Th		Forced air cooling		-

OPTIONS

Parameter	Add suffix to part number
Heat sink and fans	N/A
Isolator with forward and reverse voltage outputs	N/A
TTL Input Trigger	N/A

Mechanical Drawings



RF Input: N-conn

RF Outputs: N-conn

Gate Input: BNC

Interlock: BNC Open: disable

Short: enable

