

LINEAR WIDEBAND POWER AMPLIFIER

Model – AB9.510.3G5330AC

General Description:

Elite RF's AB Series amplifier is a wideband power amplifier designed for CW/Pulse signals fabricated on GaN on SiC process and can operate up to **10.3 GHz**. 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

- Wide Freq. Range
- High Output Power
- High Gain
- High Reverse Isolation
- Built-in Protection

Protections

- Thermal Overload
- Over Voltage
- VSWR

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	9.5		10.3	GHz
Output Power CW	Psat		200		Watt
Output Power at 1 dB Compression	P1dB		N/A		Watt
Small Signal Gain	Gp		32		dB
Large signal gain flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
IMD	IP3		N/A		dBm
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	Opv	100	120	240	VAC
AC power at 200 watts	Pd		2000		Watt
Class of Operation	C		AB		Class
Noise Figure	NF		N/A		dB
Large Signal Gain	Lsg		30		dB
Max Load VSWR	ML		10:1		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

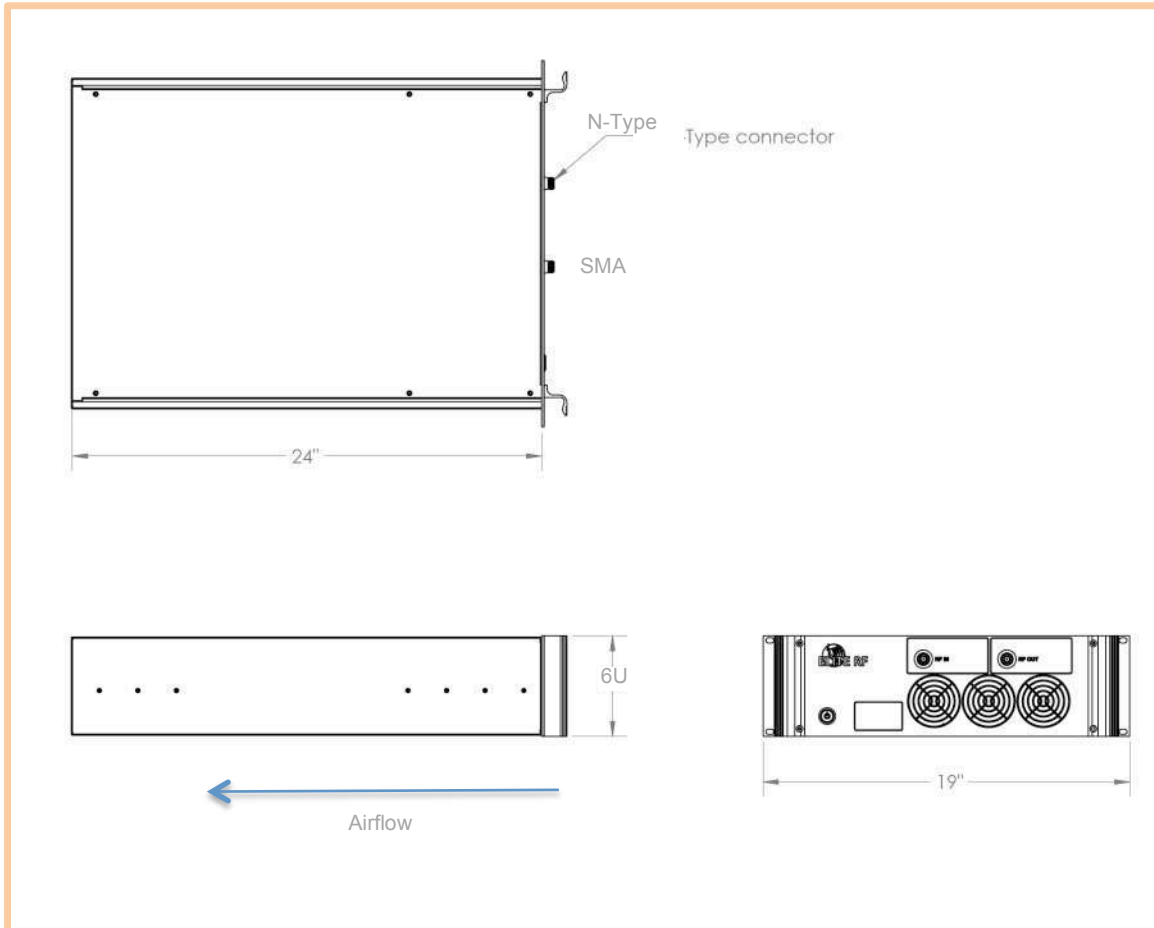
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		19 x 24 x 10.5		Inches
Weight	Wt.		40		lbs.
Connectors In/Out	RF Conn		SMA-Type / N-Type		-
Cooling	Th		Forced air cooling		-

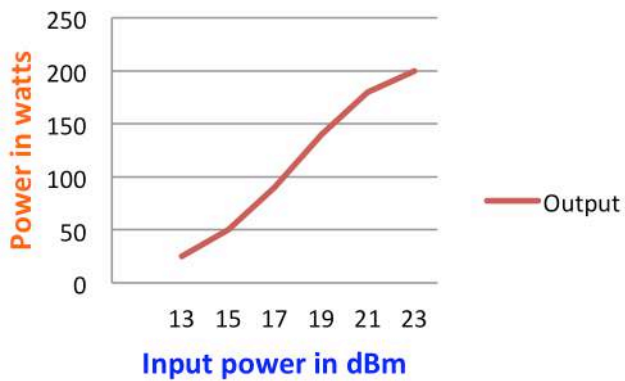
OPTIONS

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



Output Power vs. Input Power



Gain vs. Frequency

