

LINEAR WIDEBAND POWER AMPLIFIER

Model – AB3.13.5G5755AC



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 **3.5 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	3100		3500	MHz
Output Power CW	Psat		500		Watt
Output Power at 1 dB Compression	P1dB		N/A		Watt
Small Signal Gain	Gp		57		dB
Gain Flatness @ P1dB	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		Ratio
IMD	IP3		N/A		dBm
Harmonics @ P1dB	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	Opv	180	220	264	VAC
AC power at 500 watts	Pd		1200		Watt
Class of Operation	C		AB		Class
Noise Figure	NF		N/A		dB
Large Signal Gain	Lsg		55		dB
Max Load VSWR @ 500 Watts	ML		5:1		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

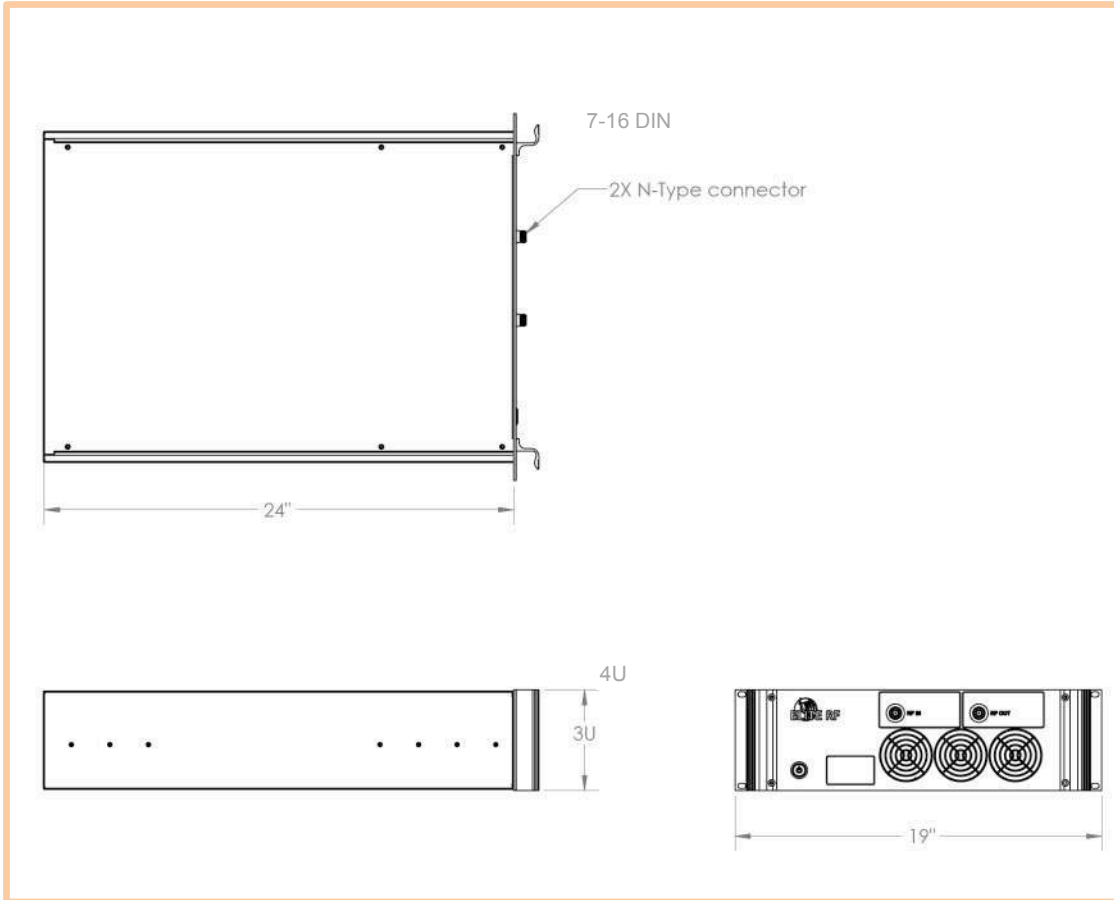
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		19 x 24 x 7.0		Inches
Weight	Wt.		40		lbs.
Connectors In/Out	RF Conn		N-Type / 7-16 DIN		-
Cooling	Th		Forced air cooling		-

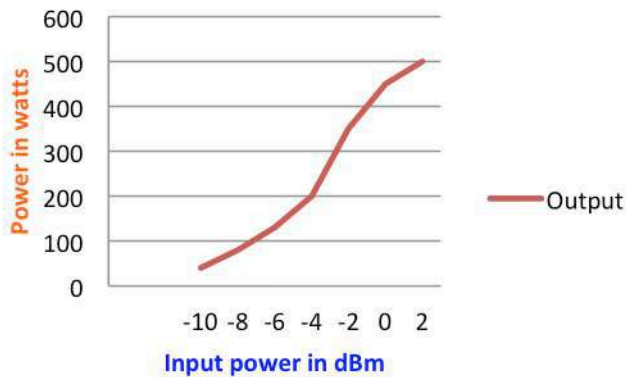
OPTIONS

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

