

# LINEAR WIDEBAND POWER AMPLIFIER

## Model - AA1.84.0G4340AC



#### **General Description:**

**Elite RF's AA Series** amplifier is a linear wideband power amplifier designed for CW/Pulse signals fabricated on GaN on SiC process and can operate up to **4.0 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 **3-year Warranty**.

#### Features Protections

Wide Freq. Range High Output Power High Gain High Reverse Isolation Built-in Protection Thermal Overload Over Voltage

## **ELECTRICAL SPECIFICATIONS**

Parameter	Symbol	Min	Тур	Мах	Unit
Frequency Range	BW	1800		4000	MHz
Output Power CW	Psat		20		Watt
Output Power at 1 dB Compression	P1dB		10		Watt
Small Signal Gain	Gp		40		dB
Gain Flatness	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		Ratio
IMD @ 2 GHz @ 1 watt/tone / 1 MHz spacing	IP3		47		dBm
Harmonics	Н		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	Ору	100	120	240	VAC
AC Power at 10 watts	Pd		100		Watt
Class of Operation	С		А		Class
Noise Figure	NF		7		dB
Large Signal Gain	Lsg		38		dB
Max Load VSWR @ 10 Watts	ML		6:1		Ratio

## **ENVIRONMENTAL CHARACTERISTICS**

Parameter	Symbol	Min	Тур	Max	Unit
Operating Case Temperature	Тс	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**

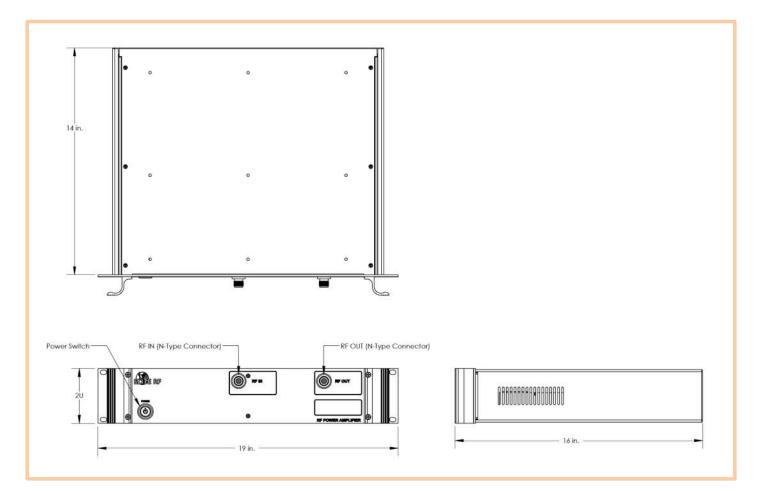
Parameter	Symbol	Min	Тур	Мах	Unit
Dimensions	Dim		19 x 15 x 3.5		Inches
Weight	Wt.		25		lbs.
Connectors In/Out	RF Conn		N-Type		-
Cooling	Th		Forced air cooling		-

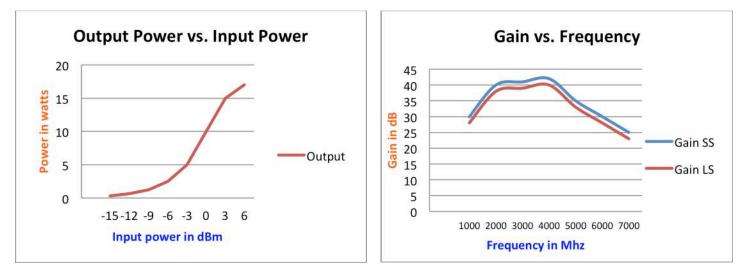
#### **OPTIONS**

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**







Elite RF LLC 1700 Tower Dr, Hanover Park, IL 60133, USA Call us for customer service/technical support at: 847-592-6350 Order or email us on-line at www.eliterf.com

Rev 2 04/06/2023: Specifications subject to change, consult sales for latest information