

LINEAR WIDEBAND POWER AMPLIFIER

Model – AB6.0018G4648AC



General Description:

Elite RF's AB Series amplifier is a wideband power amplifier designed for CW signals fabricated on GaN on SiC process and can operate up to **18 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

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

Protections

Thermal Overload
Over Voltage

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	6000		18000	MHz
Output Power CW	Psat		40		Watt
Output Power at 1 dB Compression	P1dB		15		Watt
Small Signal Gain	Gp		48		dB
Gain Flatness	Delta Gp 1		+/- 3		dB
Input VSWR	S11		2:1		Ratio
IMD @ 9 GHz @ 1 watt/tone / 1 MHz spacing	IP3		46		dBm
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	Opv	100	120	240	VAC
AC Power at 40 watts	Pd		250		Watt
Class of Operation	C		AB		Class
Noise Figure	NF		7		dB
Large Signal Gain	Lsg		45		dB
Max Load VSWR @ 40 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

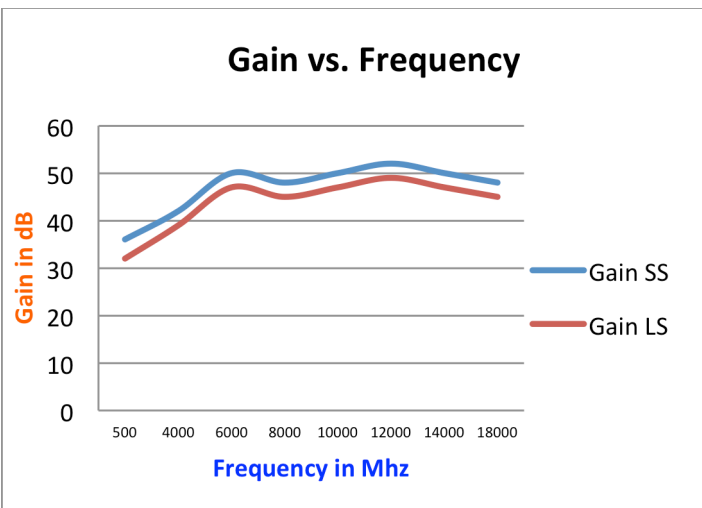
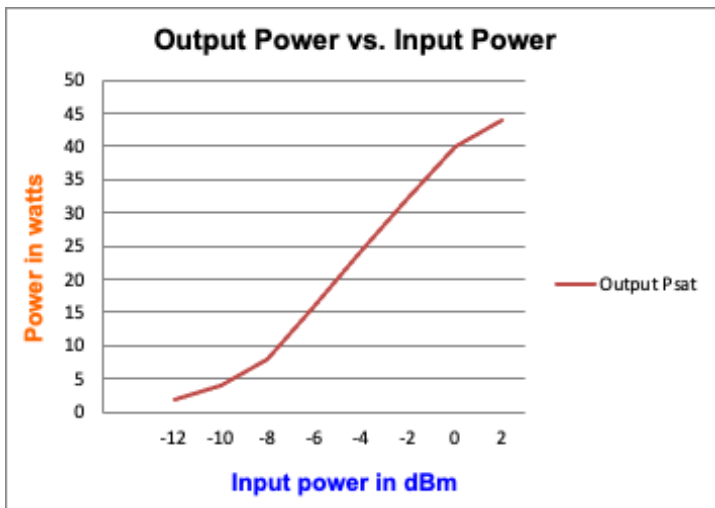
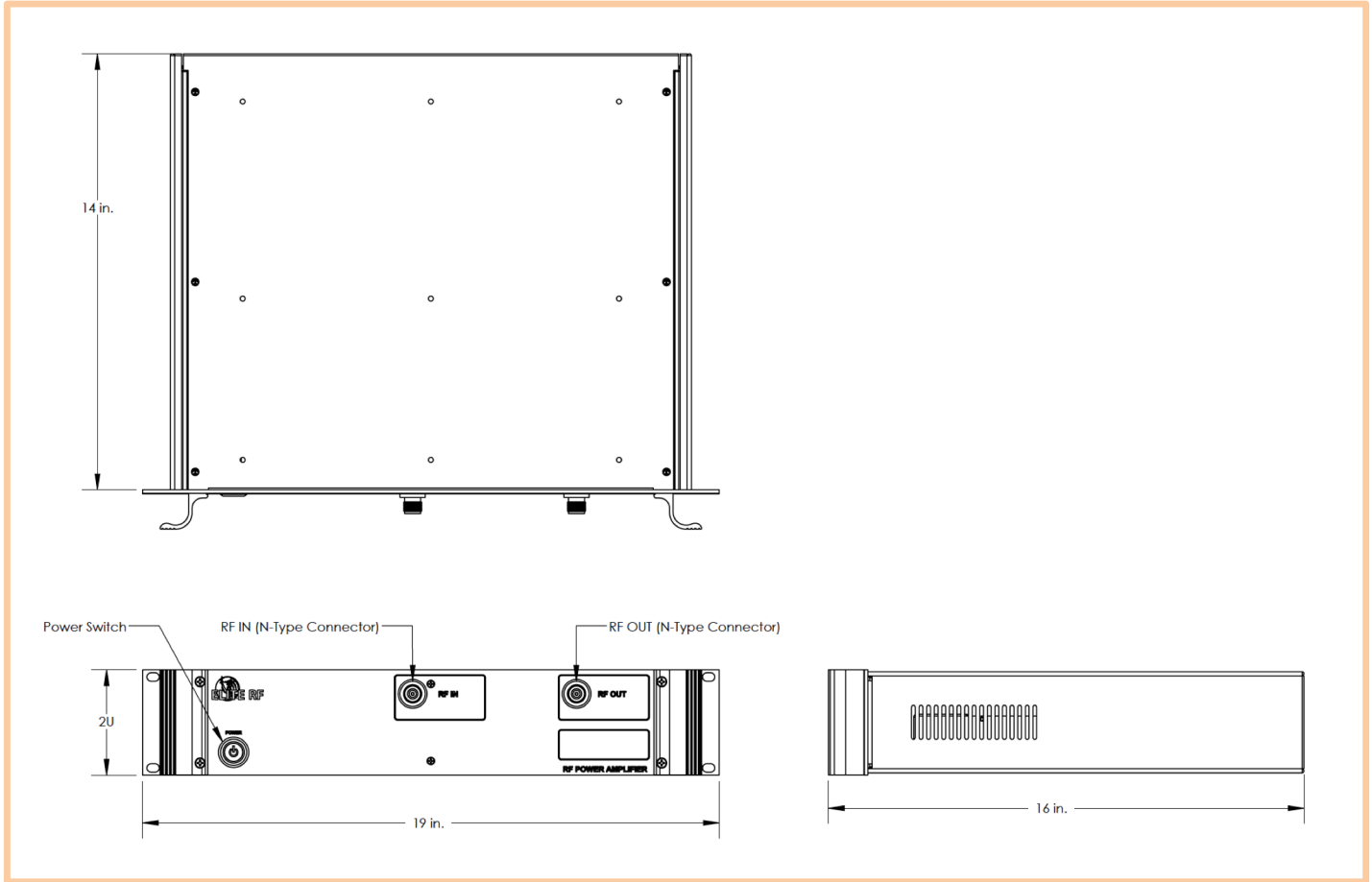
MECHANICAL CHARACTERISTICS

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



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Call us for customer service/technical support at: 847-592-6350 Order or email us on-line at www.eliterf.com

Rev09/4/2023:
Specifications subject to change, consult sales for latest information

Product Compliance:
ECCN: 3A001.b.2.c
USHTS: 8542330001