

LINEAR WIDEBAND POWER AMPLIFIER

Model – AB2.42.5G5855AC



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 **2.5 GHz**. These amplifiers offer high power density, low thermal resistance, and wide band 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

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	2400		2500	MHz
Output Power CW	Psat		700		Watt
Output Power	P1dB		300		Watt
Small Signal Gain	Gp		55		dB
Gain Flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
Duty cycle	DC		50	100	%
Harmonics @ 700 watts avg	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	Opv	200	230	260	VAC
AC Power at 700 watts avg Class of Operation	Pd		1700		Watt
Noise Figure	C		AB		Class
Large Signal Gain	NF		10		dB
Max Load VSWR @ 700 Watts avg	Lsg		53		dB
	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

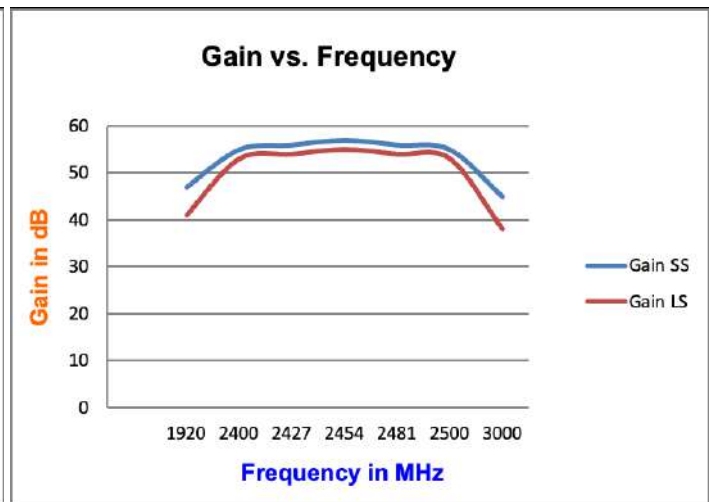
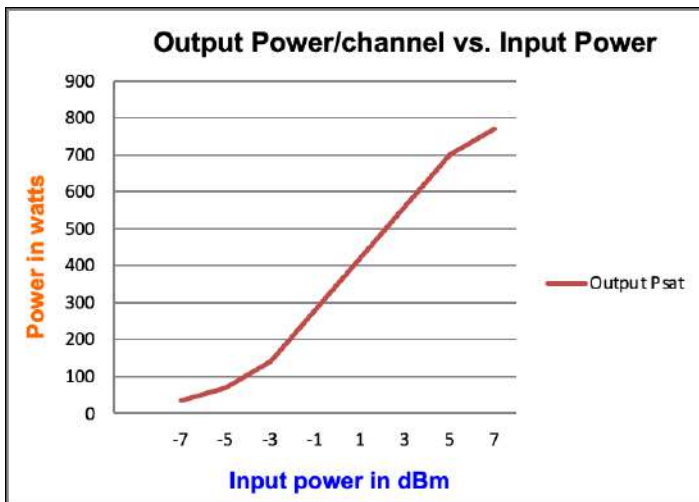
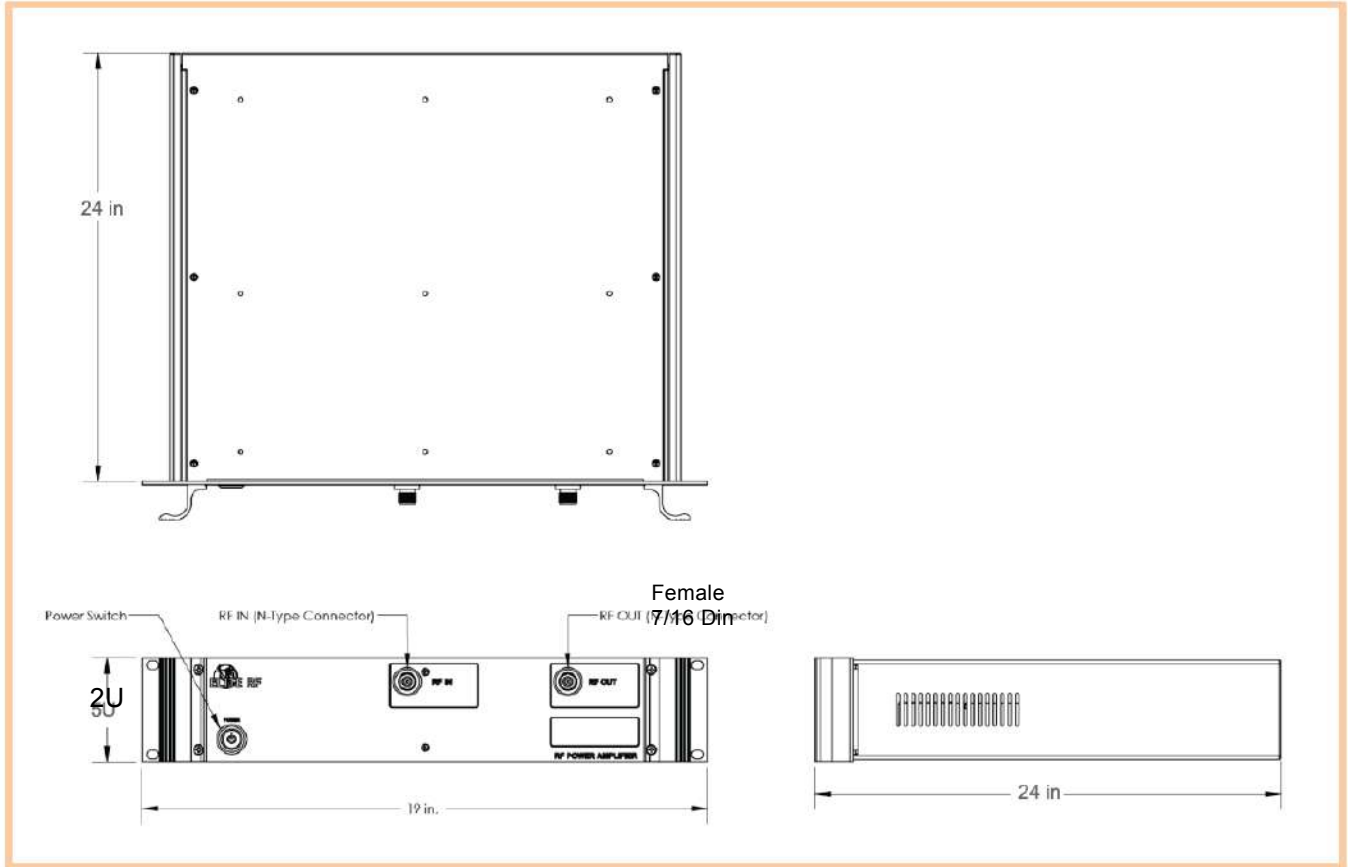
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		19 x 24 x 3.5		Inches
Weight	Wt.		45		lbs.
Connectors In/Out	RF Conn		female 7/16 Din-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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Rev1 10/2/2022: Specifications subject to change, consult sales for latest information