MULTI CHANNEL TEST SYSTEM



Model - AB1.85.0G4342AC-S



General Description:

Elite RF's AB-S Series is a 16 Channel DUT system designed for CW/Pk signals; its class AB amplifiers are fabricated on GaN on SiC process and can operate up to 5.0 GHz. These amplifiers offer high power density, octave bandwidth performance, 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.

Indicator options	Protections		
Power	Thermal Overload Over Voltage		
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High Gain

16- independent channels on left and right side/ switchable Independent control of power/ with ALC

16- high power 50- ohm load ports on left and right side

16- way splitter

RF Sample Ports on front panel

ELECTRICAL SPECIFICATIONS (1 Channel)

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Parameter	Symbol	Min	Тур	Max	Unit
Frequency Range	BW	1800		5000	MHz
Output Power CW / Pk. @ end of 2 m cable	Psat	20	25		Watt
Output Power Average with 8:1 Peak Mod.	Pavg	2.5	3.0		Watt
Small Signal Gain	Gp	42	44		dB
Gain Flatness	Delta Gp 1	+/- 3	+/- 2		dB
Input VSWR	S11		2:1		Ratio
IMD @ 1 watt/tone @ 1 MHz spacing	IP3		45		dBm
Harmonics	Н		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	Vop	100	120	240	VAC
AC system power @ 2.5 watts avg. / 16 ch.	Pd		1.0 KW		Kw
AC system power @ 20 watts CW / 16 ch.	Pd		3.0 KW		Kw
Noise Figure	NF		5		dB
Large Signal Gain	Lsg	40	42		dB
Max Load VSWR @ 3 Watts avg.	ML		Open/Short		Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Тур	Max	Unit
Operating Case Temperature	Tc	0		+40	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

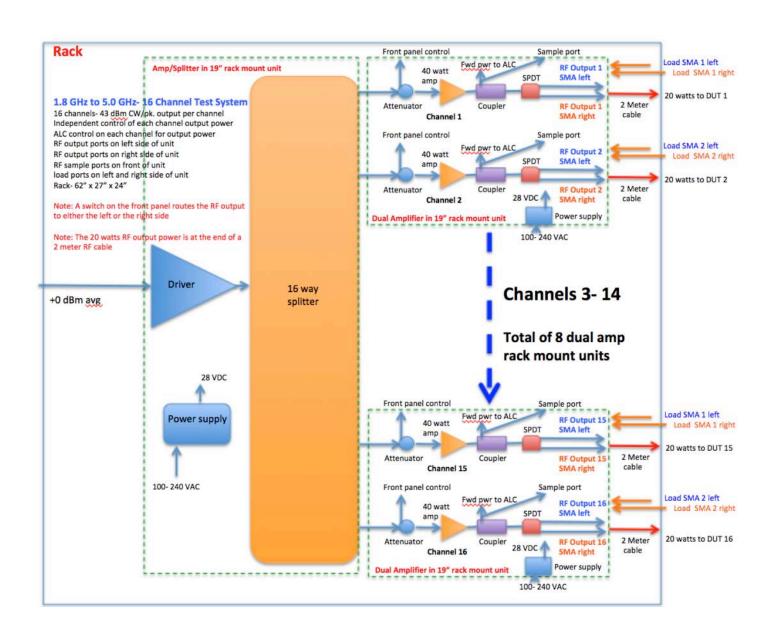
Parameter	Symbol	Min	Тур	Max	Unit
Dimensions	Dim		64 x 28 x 25		Inches
Weight	Wt.		330		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling	Th		Forced air cooling		-

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



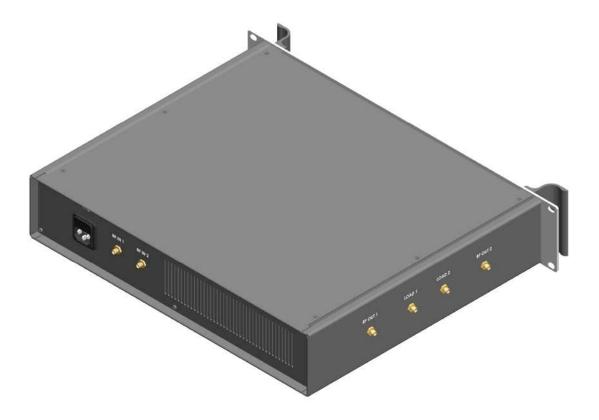
System Block Diagram



Amplifier Front View

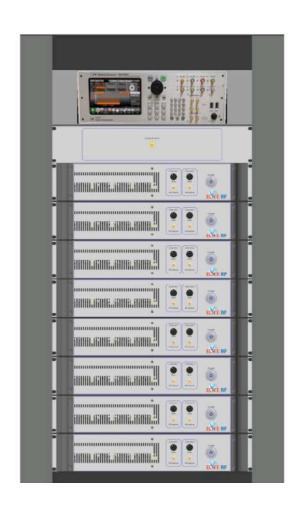


Amplifier Left Side View, Right side has the same 4 SMA connectors, a switch on the front panel controls the signals to the right or left

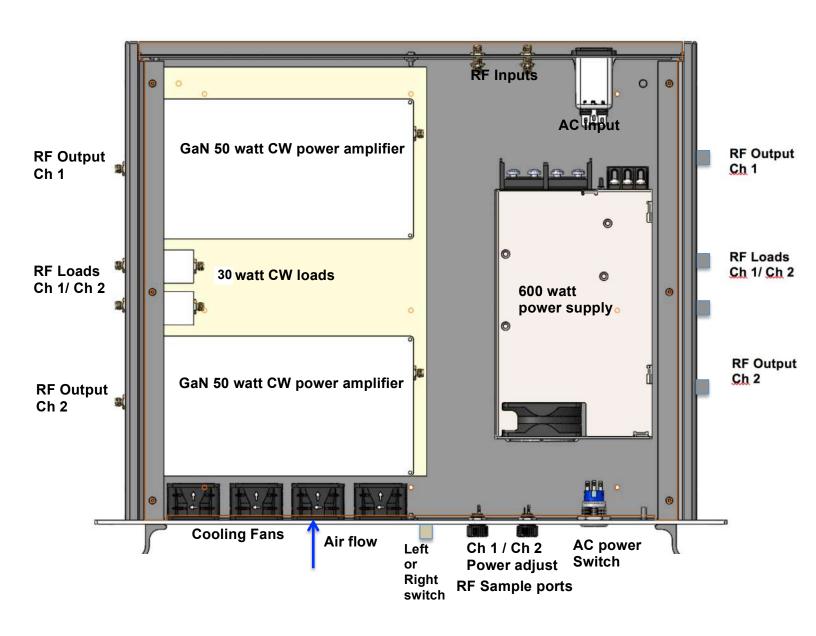


System Front and Side View



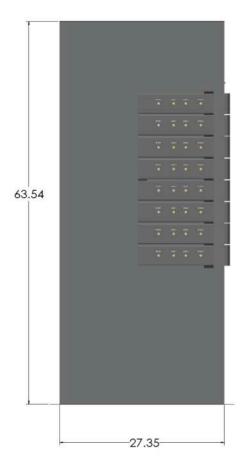


Dual Amplifier Inside View



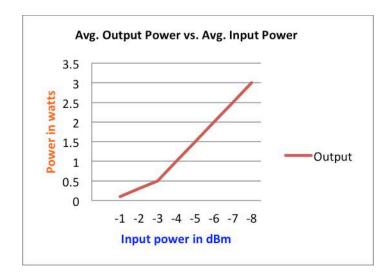


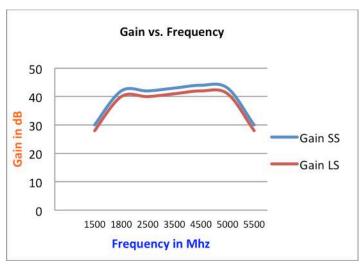
Mechanical Drawings in inches





System Weight: 330 lbs







Rev 4 08/01/2023: Specifications subject to change, consult sales for latest information