AMP2139DB
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear LDMOS and GaN design
Dual Band ultra-broadband band
Manual relay switching via SW control
Designed for EMI/RFI, lab, and general communication applications
Suitable for all single channel modulation standards
Rack mounted system
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
Operating Frequency Band	1 - 1000 MHz	1 - 6 GHz	Band switching @ 15 mS Max
Power Output CW	30 Watt Min / 50 Watt Typ		CW
Power Gain	45 dB Min		
Power Gain Flatness	4.0 dB p-p Max		Constant input power
Input Return Loss	-10 dB Max		Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ		35dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ		At rated Pout
Non Harmonic Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	100 - 240 VAC		
Power Consumption	500 Watt Max		At rated Pout
Input Power Protection	+8 dBm Max		<10 Sec without damage
Load VSWR Protection	∞ : 1		<1 minute at rated Pout for

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	17 x 3.5 x 27.57 inch (430 x 88 x 700 mm)	2U, excluding handles
Weight	27 lb. (12 kg.)	
RF Connectors In/Out	Type-N Female	Rear Panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
INCLUDED: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	

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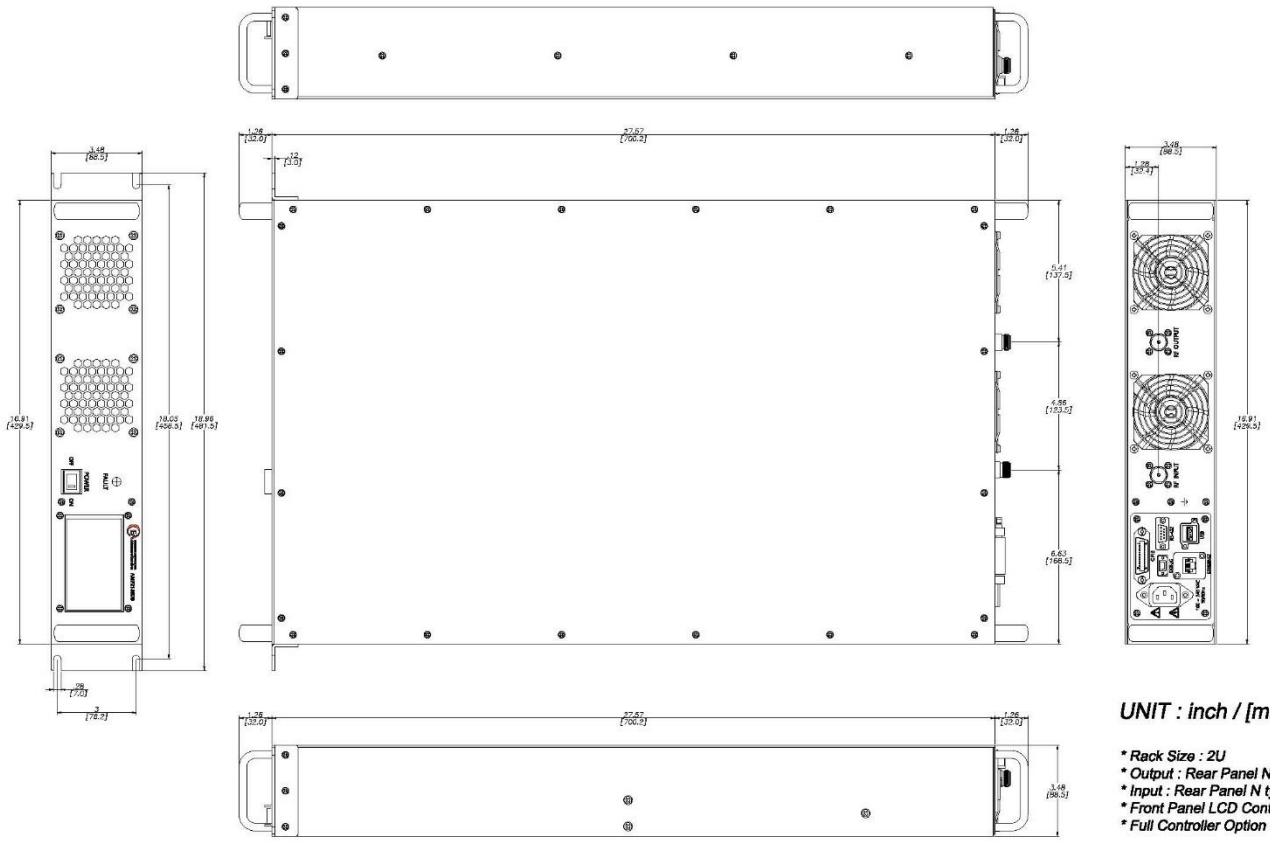
OUTLINE DRAWING



UNIT : inch / [mm]

* *Rack Size : 2U*
* *Output : Rear Panel N type Female*
* *Input : Rear Panel N type Female*
* *Front Panel LCD Controller*
* *Full Controller Option + GPIB*

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BLOCK DIAGRAM