



# AMP2056-2 SOLID STATE HIGH POWER AMPLIFIER



## FEATURES

- Rack mounted system
- Covering the RF frequency range
- Class AB linear LDMOS design
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.5 - 30 MHz	
Power Output	500 Watt Min	CW
Power Gain	57 dBm Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	47dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics 2 <sup>nd</sup> / 3 <sup>rd</sup>	-25 dBc / -15 dB Typ	
Spurious	70 dBc Min	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	2 KW	At rated Pout
Maximum Input Power Protection	+8 dBm	<10 Seconds
Load VSWR Protection	10 : 1	<1 Minute @ rated output

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	-10 to +50 °C	
Storage Temperature	-20 to +70 °C	
Relative Humidity	5 to 95 % @ 55 °C	Non Condensation
Operating Altitude	10,000 feet	
Vibration	Per MIL-STD-810E, Method 514.5	

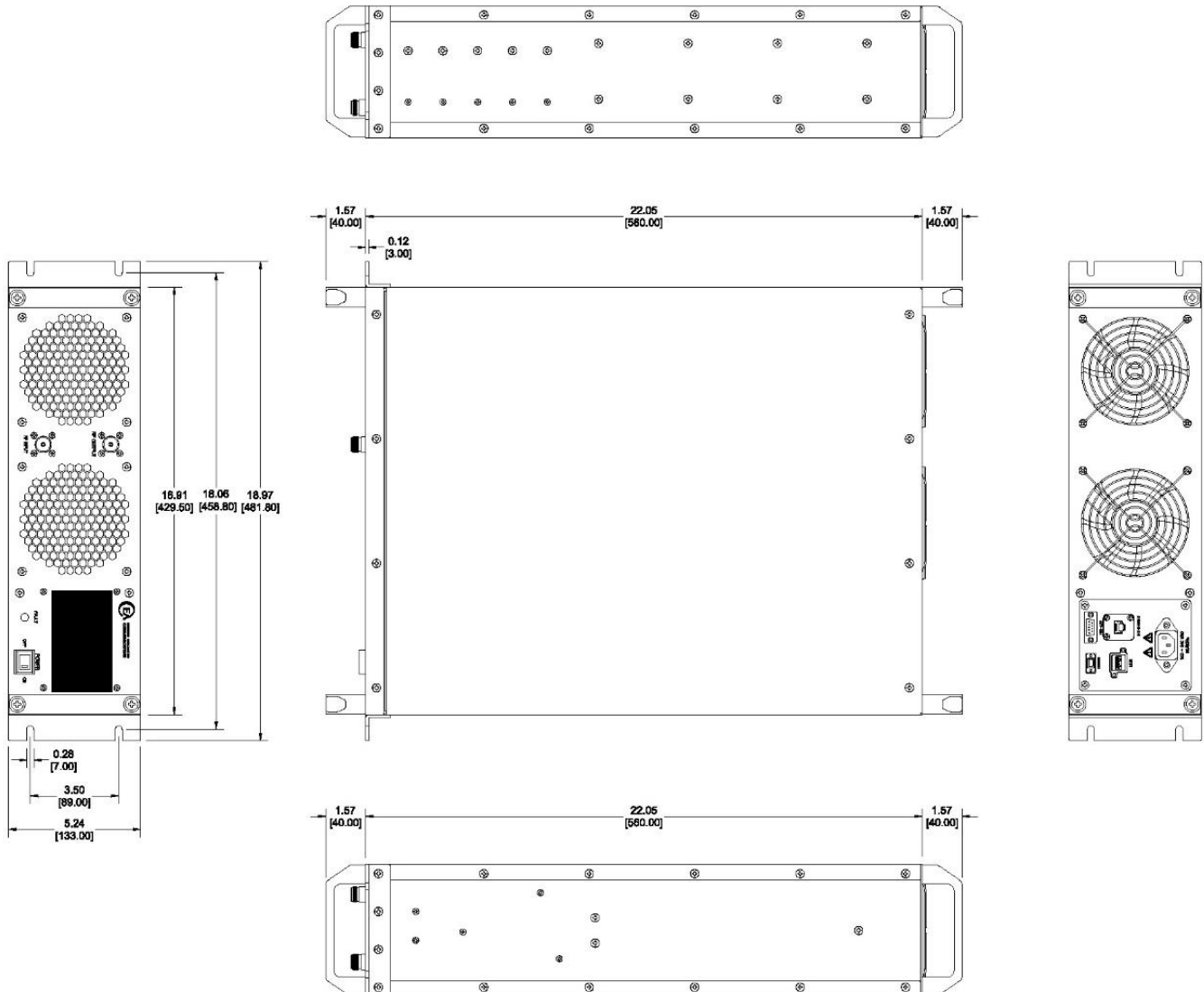
## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U
Weight	25 Kg. Max	
RF Connectors In/Out	Type-N female	
AC Power / I/O Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, GPIO Interface	Remote Bluetooth application

### D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1		N/A
2		N/A
3	DC Current Sensor	$I_D @ 20mV/100mA$ Typ
4	Temp Sensor	$V_T @ 10mV/^{\circ}C + 500mV$ Typ
5	Shutdown	TTL
6	DC Voltage Sensor	Internal PS voltage
7		N/A
8, 9	GND	

### OUTLINE DRAWING - OPTIONAL LCD DIGITAL CONTROLLER



## OUTLINE DRAWING - MANUAL GAIN ADJUSTMENT

