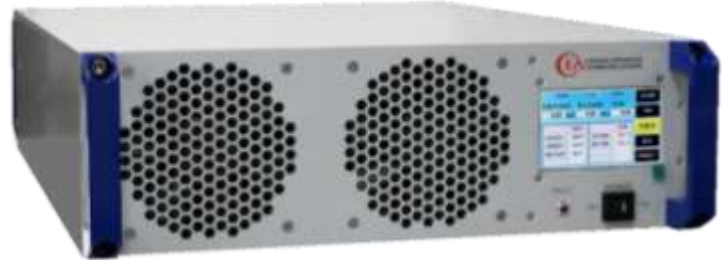




AMP4023-1 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class A/AB linear design
High power S-Band band specific applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50 Ohm, 25°C

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 2.3 GHz	
Power Output @ P1dB GCP	25 Watt Min	CW
Power Gain	44 dB Min	0dBm or less for rated Pout
Power Gain Flatness	2.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	44dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Max	At rated output
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	200 Watt Max	At Rated Pout
Input Power Protection	+10 dBm Max ¹	<10 Sec without damage
Load VSWR Protection	$\infty : 1^2$	<1 minute @ rated output

1 Units with optional digital monitor and control, for basic units <10 Sec without damage

2 Units with optional digital monitor and control, for basic units <1 minute at rated Pout

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
Altitude	3000m	
Shock & Vibration	Normal Transport ³	

3 MIL Spec available for quotation

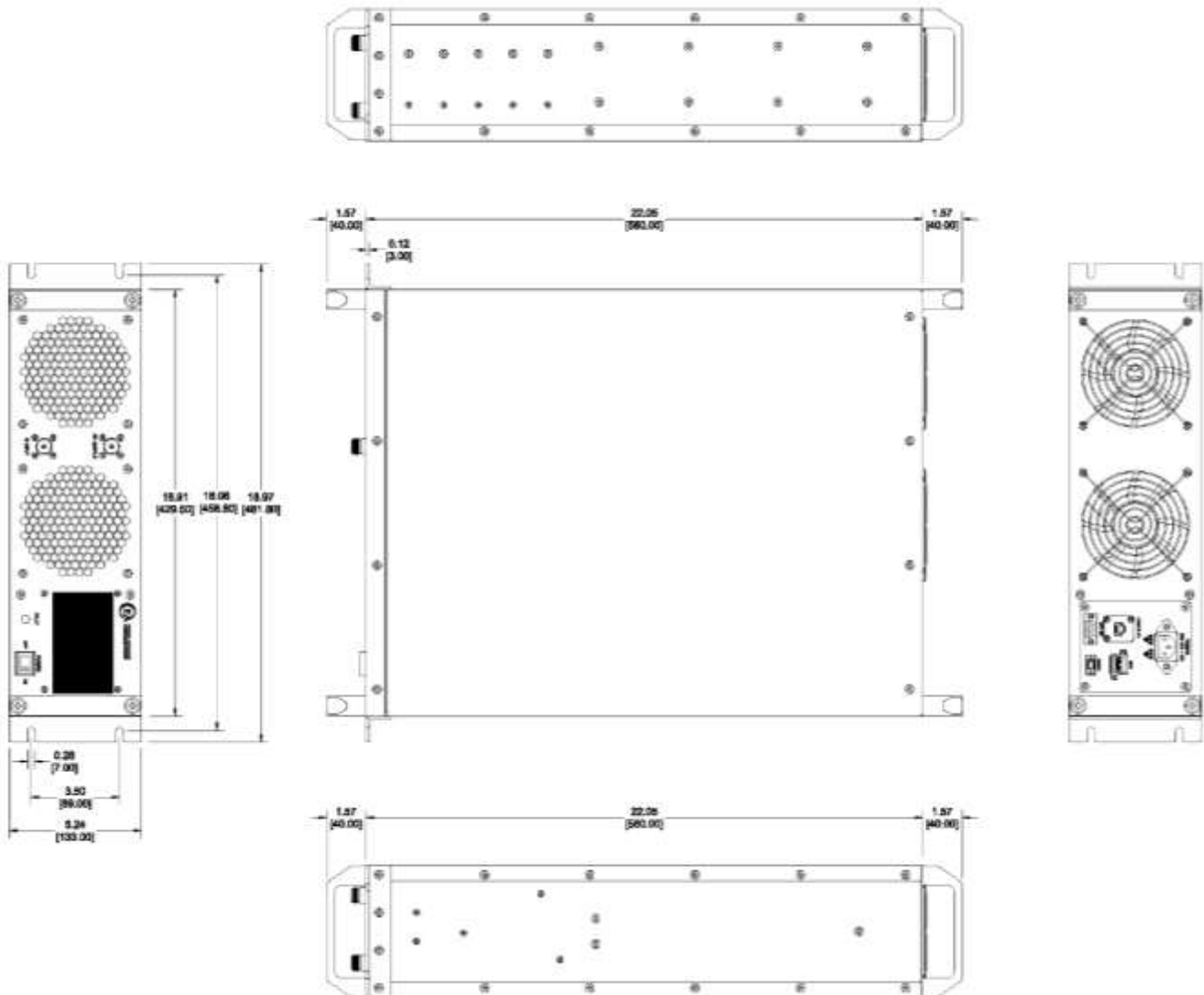
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm (19 x 5.25 x 22 inches)	3U excluding handles
Weight	20 kg.	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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AMP4023-1 SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING



AMP4023-1 SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING-BASIC UNIT (no controller)

