HD35175
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications
Small form factor, rack mounted Dual-Band system
Class A/AB Linear design
High Power Advanced technology devices
Instantaneous ultra-wide bandwidth
Built-in protection circuits, with extensive monitoring
Local LCD & remote flexible interfaces
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification		Notes
Band	**Band A**	**Band B**	
Operating Frequency Range by Band	0.4 - 6.0 GHz[3]	6.0 - 18.0 GHz	Band A Spillover down to 400MHz[3]
Power Output CW Band A / Band B	10 Watt Min		CW or Pulse
Power Gain	40 dB Min		0dBm or less for Rated Power
Power Gain Flatness	5.0 dB p-p Typ		Constant input power
Gain Adjustment Range	>20 dB Typ		Local or remote capable
Input Return Loss	-10 dB Max		
2-Tone Intermodulation (IMD) Band A / Band B	-30 dBc Typ		30dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	100 - 240 VAC		47-63 Hz
Power Consumption	200 Watt Max		At rated Pout
Input Power Protection	+10 dBm Max[1]		
Load VSWR Protection	4 : 1: Max[2]		Foldback @ preset limit
Sample Port (optional)	-40 dB		N-Female

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
3 Band A spillover frequency range is functional down to 400MHz with non-specified gain/power variation.

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[4]	

4 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D (No display with DMC)	430 x 88 x 562 mm	2U, excluding handles
Dimensions W x H x D (with Option DMC)	430 x 133.3 x 560 mm	3U, excluding handles
Weight	(2U/9 kg.) (3U/12kg.)	
RF Connectors Input/Output/Sample	N-Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent / Rear panel
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control[5] FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, **OPTIONAL**: Safety Interlock	Ethernet RJ-45 TCP/IP, RS422/485, USB Open=STBY/Short=RFON	 BNC Female on rear panel

5 Option DMC, LCD controller option may reduce output power by up to -0.5dB

338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com

Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

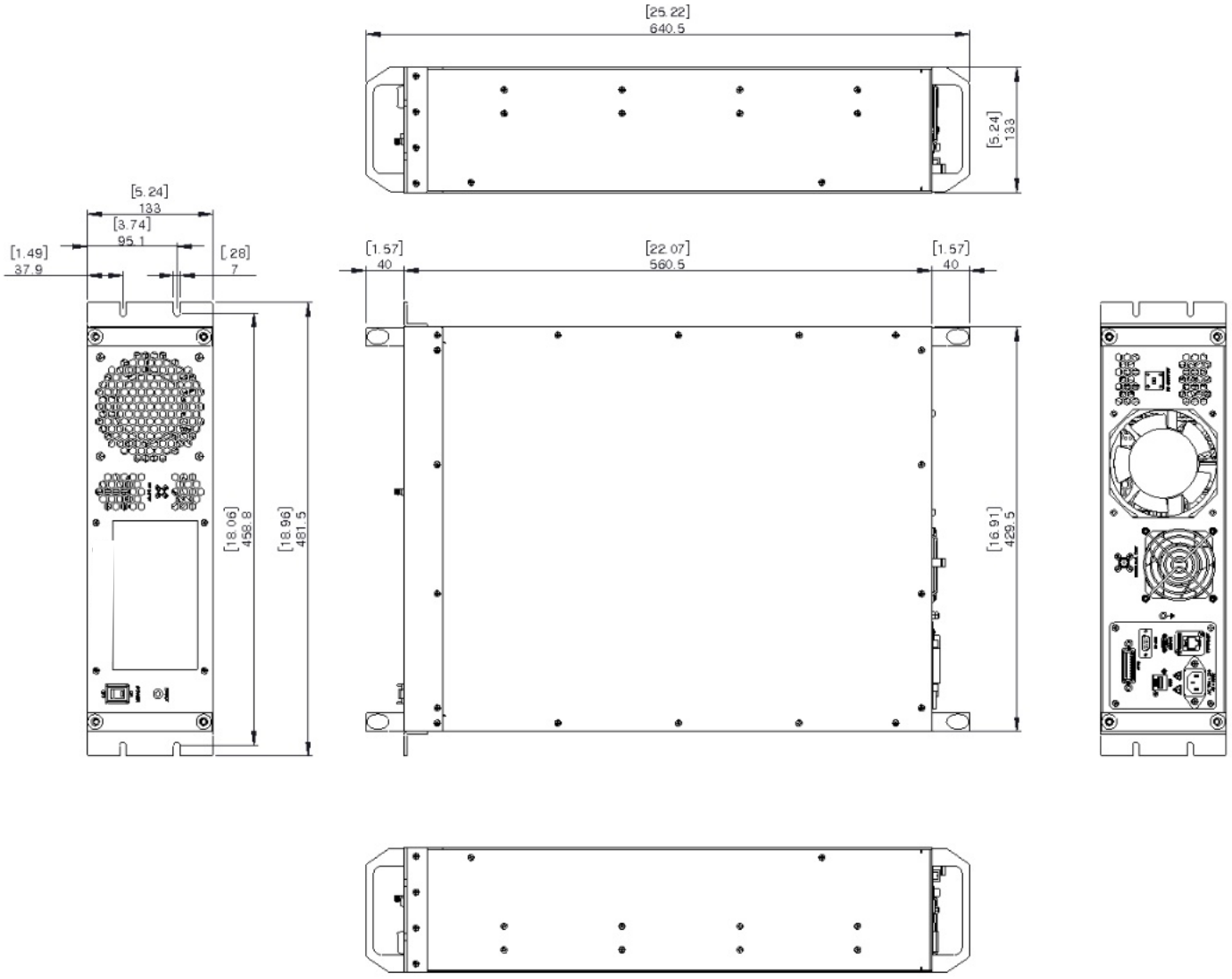
HD35175
SOLID STATE HIGH POWER AMPLIFIER

AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-40dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	14-points standard[6]

6 Consult with factory if additional points would be required.

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER

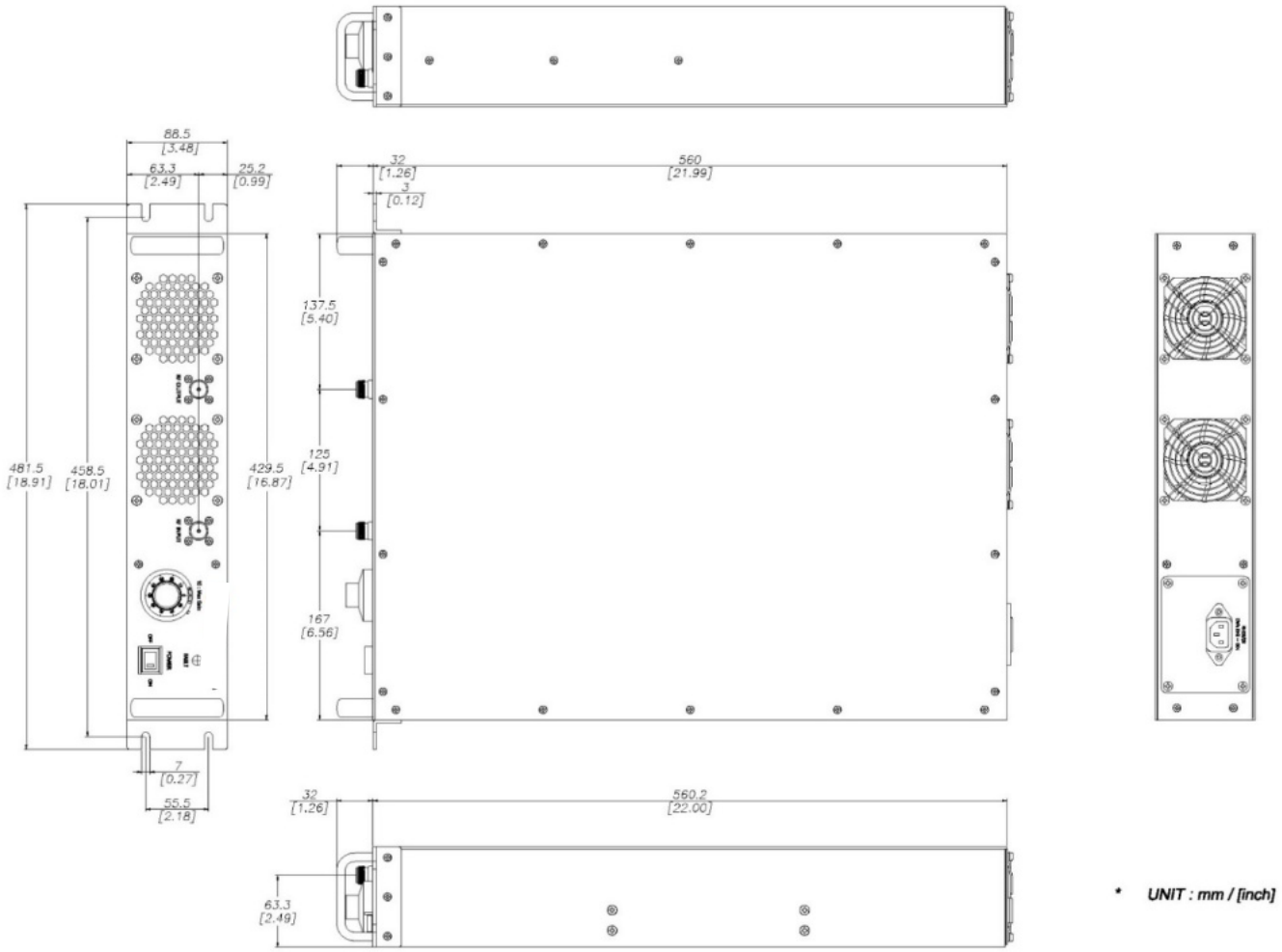


338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com

Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

HD35175
SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING
BASIC MODEL, NO DISPLAY WITH DMC OPTION



* UNIT : mm / [inch]

338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com

Specifications subject to change without notice.
Specifications and drawings may vary with selected options.