HD35188
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Small form factor rack-mounted system
Class AB linear Advanced technology design
Instantaneous UHF-Band
Linear high peak pulse applications
Designed for EMI/RFI, lab, HIRF/Pulse Radar applications
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	
Operating Frequency Range	400 - 1000 MHz				
Power Output @ Peak Pulse	4.0 KW Min			Peak Pulse	
Input Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**
	up to 100 µS	6 % Max	up to 100 KHz	<50ns Typ	<1 dB
Power Gain	66 dB Min			0dBm or less for rated Pout	
Power Gain Flatness	2.0 dB p-p Max			Constant input power	
Gain Adjustment Range	20 dB Min			Local or Remote	
Input Return Loss	-10 dB Max				
Output Power On/Off Ratio	80 dB Max			TTL Gate Control	
Harmonics	-20 dBc Typ			At rated output power	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	100 - 240 VAC			50-60 Hz	
Power Consumption	1.5 KW Max			At rated Pout	
Input Power Protection	+8 dBm Max[1]				
Load VSWR Protection	4 : 1: Max[2]			Foldback @ preset limit	
Sample Port (optional)	-60 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

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[3]	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	421 x 442 x 600 mm	10U - Excluding handles
Weight	45 kg.	
RF Connectors In/Out/Sample (optional)	N-Female/ SC-Female / N-Female	Front or rear panel
Gate Control	BNC Female	Front panel
AC Power / Interface Connector	IEC60320-14 / D-Sub 9-Pins	Or equivalent, Rear panel
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

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.

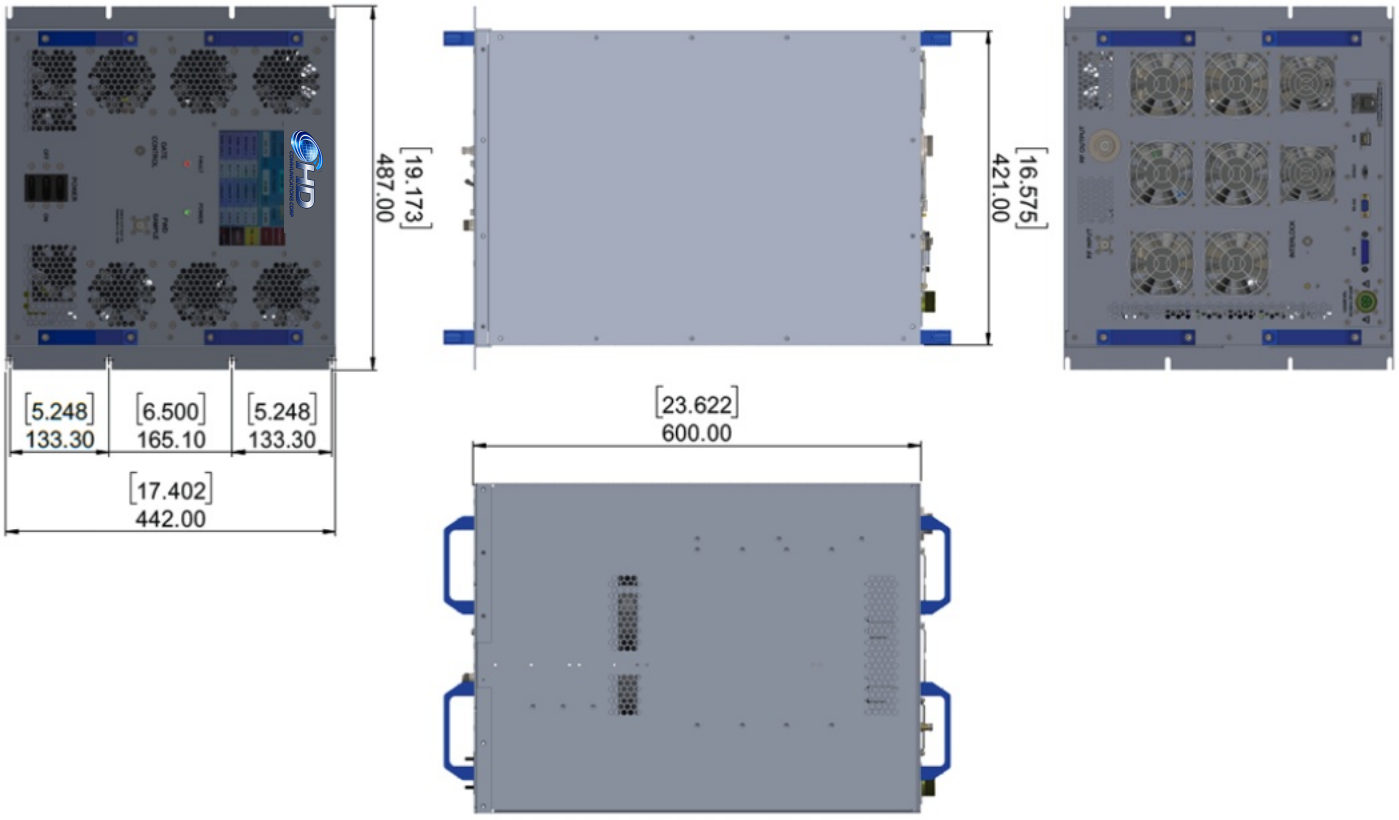
HD35188
SOLID STATE HIGH POWER PULSE AMPLIFIER

AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-60dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring	Offset correction entry for +/- 0.2dB accuracy	7-points standard[4] (each 100MHz)

4 Consult with factory if additional points would be required

OUTLINE DRAWING
SHOWN WITH 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.