HD35218
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

High peak power S-Band pulse applications
High power advanced GaN pulse devices
Instantaneous bandwidth
Suitable for linear pulse applications
Built-in control, monitoring and protection circuits
High efficiency, reliability and ruggedness



ELECTRICAL SPECIFICATIONS : Relative to 50Ω

Parameter	Specification	Notes
Operating Frequency Range	2.7 - 2.9 GHz	
Peak Output Power	8 KWatt Min	
Pulse Characteristics (Max Rating)	Duty: 10 % / Width: 150 µSec / PRF: 2KHz	Duty 10%, Pulse Width 150uS requires PRF rating of 660Hz Duty 10%, PRF rating of 2KHz requires Pulse width of 50uS.
Rise / Fall Time	<50 nS Typ / 60 nS Max	10% to 90%
Input Peak Power for Nominal Output	0 dBm ±1.0dB Nom	Power Gain = 69 dB Nom
Harmonics	-20 dBc Max	
Spurious	-50 dBc Max	
Power flatness	≤1.0 dB	Over operating frequency
Pulse Width Variation (Jitter)	<-70 nS	
Amplitude Pulse Droop	≤0.5 dB for 150 µSec Pulse	
Amplitude Ripple	≤0.3 dB	
Phase change along the pulse	≤35°, 0 ≤ t ≤ 5 µSec ≤50°, 5 ≤ t ≤ 100 µSec	
Input / Output VSWR	1.5 : 1 Min	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	-20 to +55°C	
Storage Temperature	-40 to +70°C	
Relative Humidity	95% @ 40°C	Non-condensing
Shock & Vibration	MIL STD 810E	
EMI/EMC	MIL STD 461E	
Cabinet Emitted Radiation	Residual RF radiation < 5mW/cm^3	Continuous 8 hours exposure

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	13U standard rack height	Alternate height TBQ
Weight	-	Including cabinet
RF Connectors In/Out	Type N-F / Waveguide WR284	Front/Rear Panel Standard
RF Output Monitoring FWD / REV	Type N-F	
AC Power	380/220 VAC, 48-64Hz, 3 Phase & Natural	4 Wires
Interface Connector	TBD	
Monitor & Control - OPTIONAL Interface	1 Ethernet RJ-45 circular connector TCP/IP 1 RS422/485 D-dub 9S port for redundancy	
Cooling	Built in forced air	

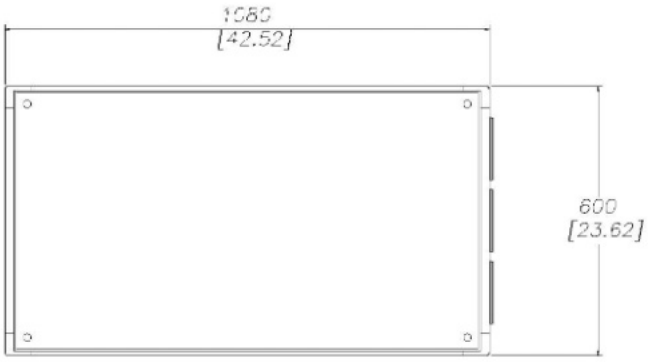
Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

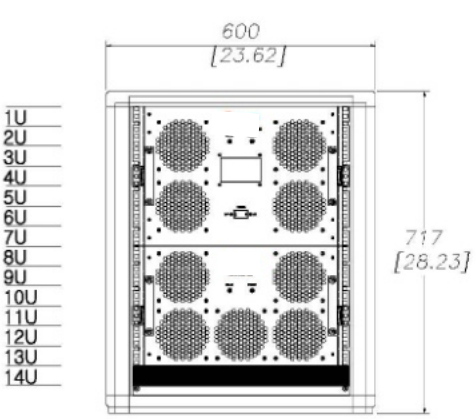
HD35218
SOLID STATE HIGH POWER PULSE AMPLIFIER

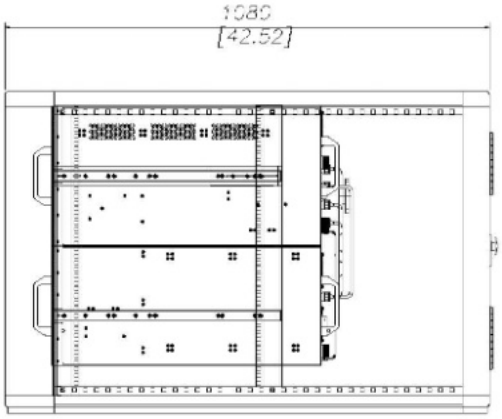
OUTLINE DRAWING

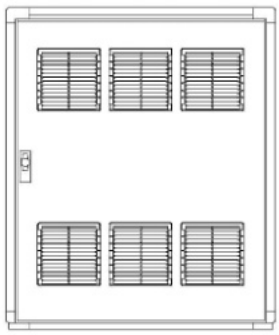
(7U+6U) System Outline

1. Rack : SR14UBDP(TRUPP.LITE)
   - 14U Rack
2. CONTROL/COMBINER : 7U
3. HPA SYSTEM : 6U
4. Blanking Panel : 1U
5. UNIT : mm / [inch]









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

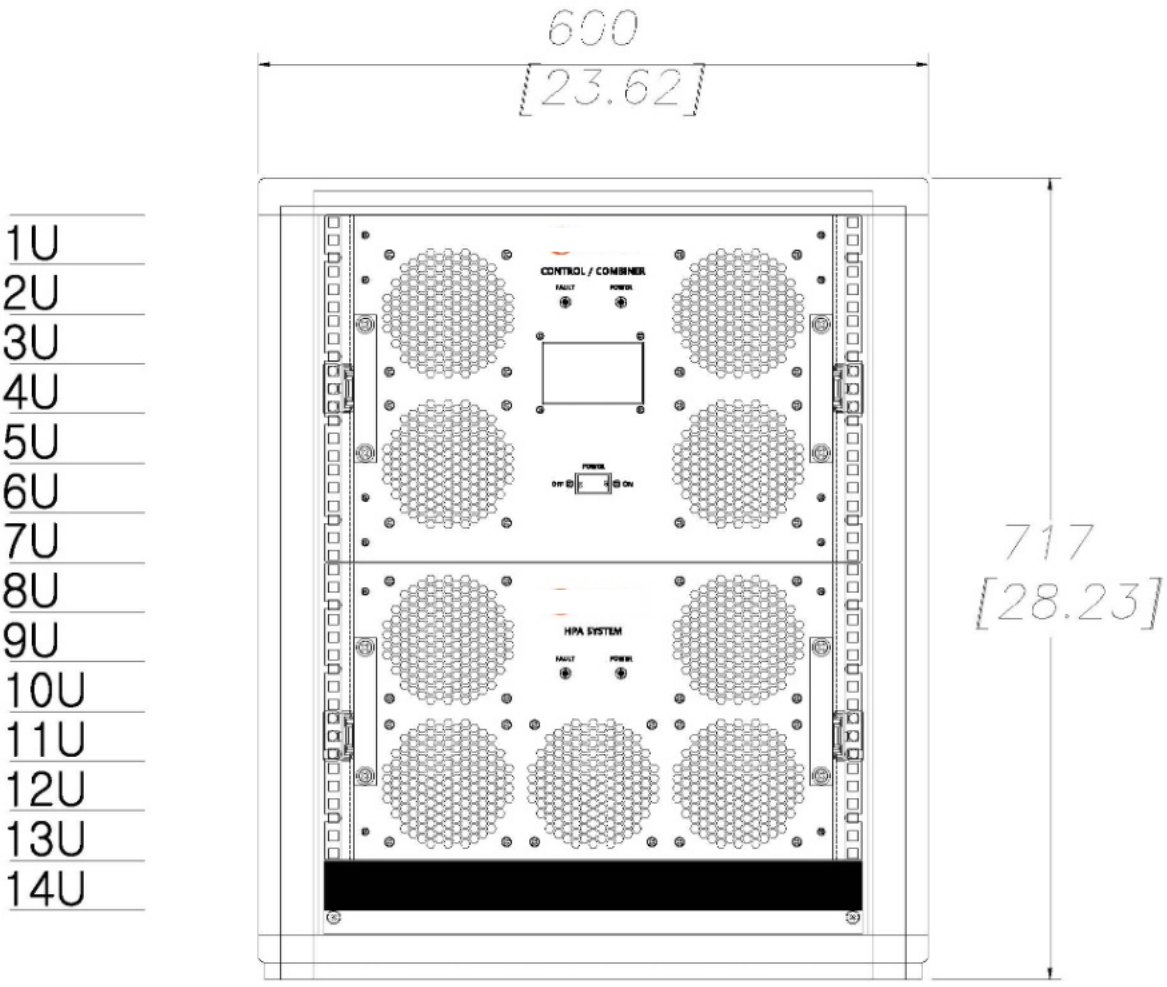
Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

HD35218

SOLID STATE HIGH POWER PULSE AMPLIFIER

OUTLINE DRAWING

(7U+6U) System Front



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.

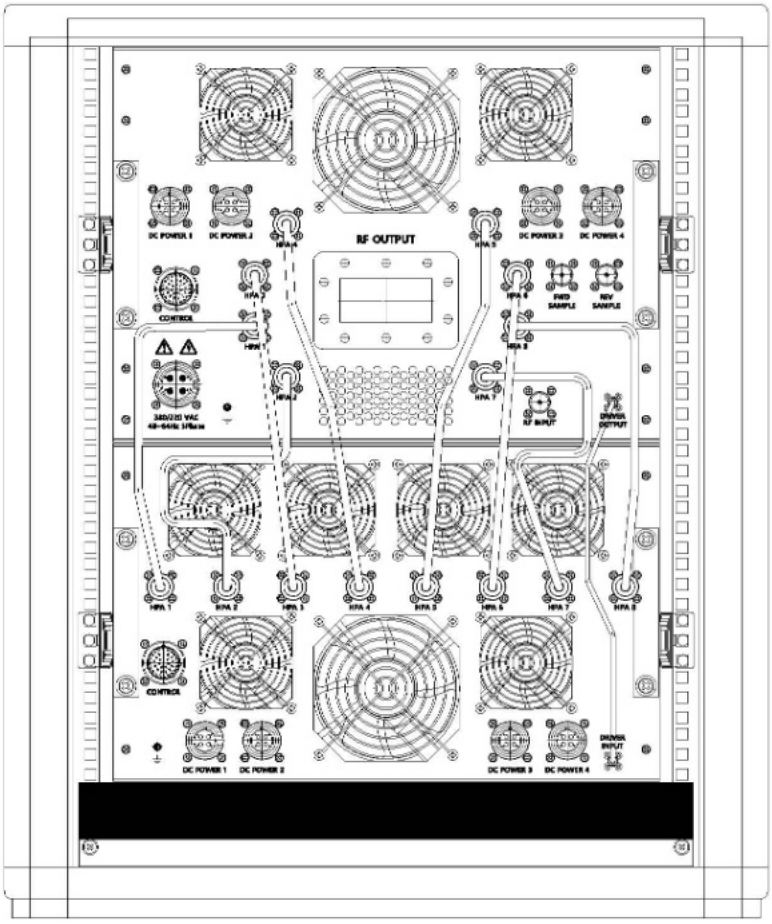
HD35218

SOLID STATE HIGH POWER PULSE AMPLIFIER

OUTLINE DRAWING

(7U+6U) System Rear

1U
2U
3U
4U
5U
6U
7U
8U
9U
10U
11U
12U
13U
14U



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

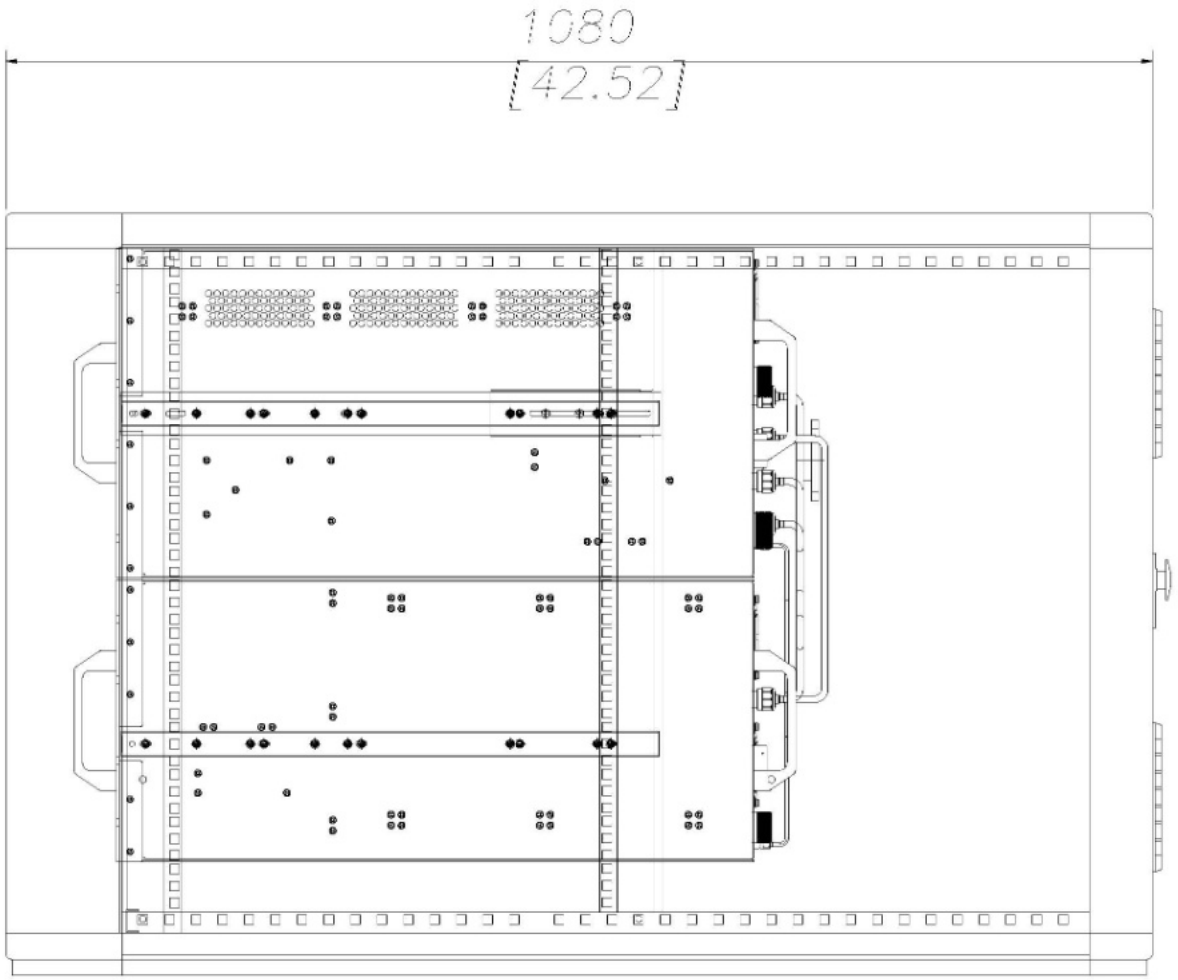
Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

HD35218

SOLID STATE HIGH POWER PULSE AMPLIFIER

OUTLINE DRAWING

(7U+6U) System Side



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.