# HD35217
# SOLID STATE PULSE HIGH POWER AMPLIFIER

**FEATURES**

Small form factor rack-mounted system High power advanced technology
Instantaneous bandwidth
Suitable for high power S-Band linear pulse applications
Designed for Pulse Radar, Comm., and EW applications
Standard MPU with local and remote interface
Built-in protection circuits
High reliability and ruggedness



**ELECTRICAL SPECIFICATIONS** : 50Ω, 25°C

| Parameter | Specification | | Notes |
|---|---|---|---|
| Operating Frequency Range | 3.1 - 3.5 GHz | | |
| Duty Cycle | Up to 5 % | Up to 15 % | |
| Output Power @ Peak Pulse | 1300 Watt Min | 1000 Watt Min | |
| Output Power Flatness | 0 to 2 dB | | Over operating band |
| Input Power | 24 dBm ±1.0 dB | | |
| Saturated Gain | 38 dB Min | | |
| Pulse Width | 2 - 64 µSec | | |
| Duty Cycle | up to 5 % | | |
| Rise / Fall Time | <250 nSec / <150 nSec | | |
| Droop | <0.8 dB Max | | |
| Input / Output VSWR | 1.5 : 1 Nom | | |
| Harmonics | -30 dBc Max | | At rated Output Power |
| Near Carrier Noise | <-70 dBc @ 100 Hz away from carrier.<br>Input Source <-80 dBc/Hz | | Amplifier adds less than<br>10dB noise components |
| Spurious | -60 dBc Max | | Non-harmonics |

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Ambient Temperature | 0 to +50 °C | |
| Storage Temperature | -40 to +70°C | |
| Relative Humidity | 95% @ 40°C | Non Condensing |
| Shock & Vibration | Normal transport | |
| Altitude | 3000 m | |

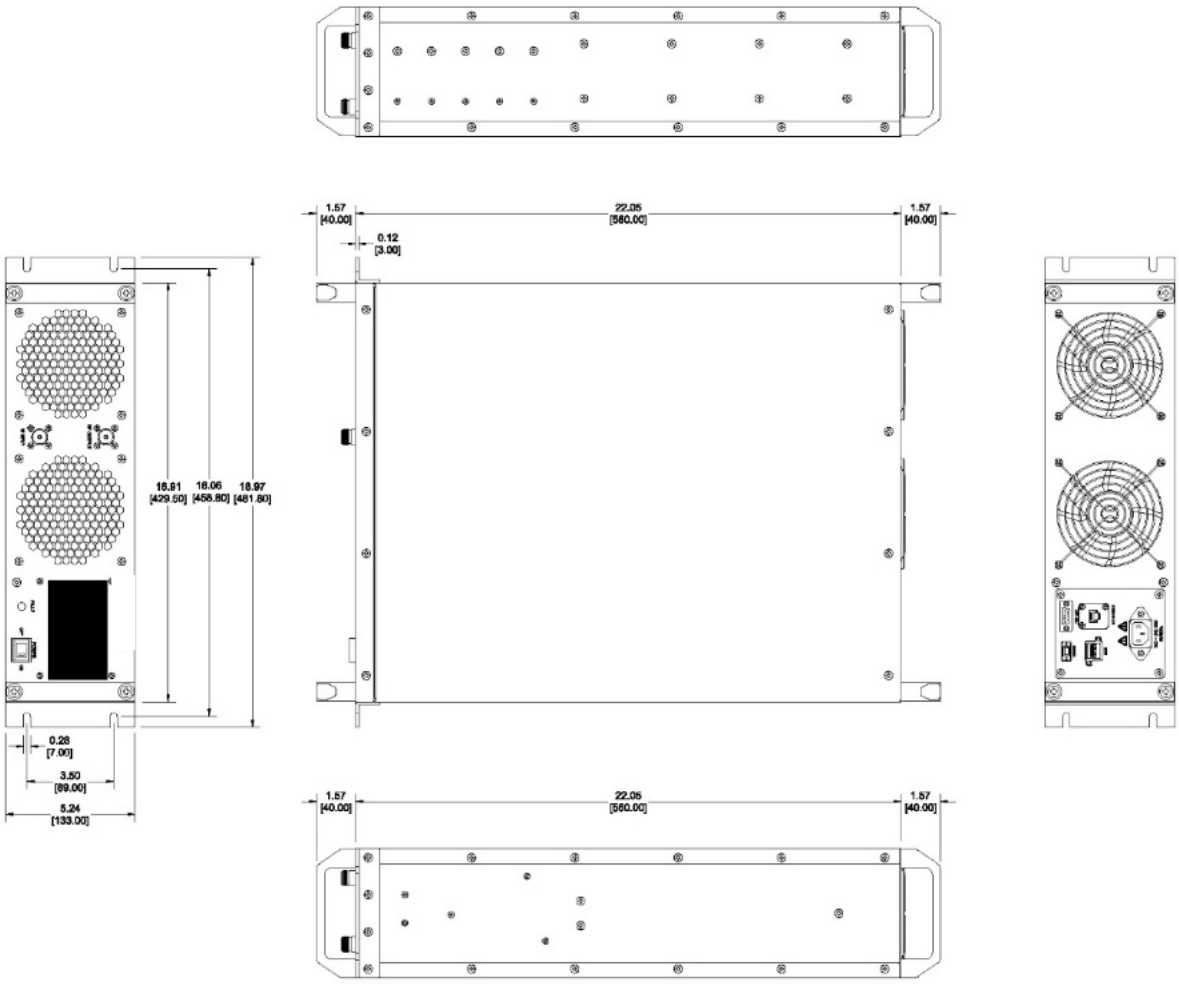
**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 421 x 131 x 560 mm | 3U - excluding handles |
| Weight | 20 Kg. Typ | |
| RF Connectors In/Out | Type-N Female | Front or Rear panel |
| RF Output Monitoring | SMA Female | Coupled Port |
| Gate Control Input | BNC Female | Front panel standard |
| Detected RF Output | BNC Female | Front panel standard |
| AC Power | IEC 60320-C14 | Or equivalent |
| Interface Connector | 9-Pin D-Sub | Front Panel |
| Cooling | Built in Fan Cooling | Variable speed |

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Specifications subject to change without notice.
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## OUTLINE DRAWING




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