# HD35221
# SOLID-STATE HIGH POWER AMPLIFIER

**FEATURES**

Designed for EMI/RFI, lab, CW/Pulse and all EW communication applications
Small form factor, rack mounted 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°

| 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, Δ = 1MHz |
| Harmonics | -20 dBc Max | At rated Pout |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 300 Watt Max | At rated output |
| Max Input Power | +10 dBm Max[1] | <10 Seconds without damage |
| Load VSWR Protection | ∞ : 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 | 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 | 430 x 133.3 x 560 mm | 3U, excluding handles |
| Weight | 20 kg. | |
| RF Connectors In/Out | Type-N Female | Front or rear panel |
| Interface Connector | 9-Pin D-Sub | Rear panel |
| AC Power | IEC 60320-C14 | Or equivalent |
| Cooling | Built in Fan Cooling | Variable speed |
| **STANDARD:** Digital Monitor & Control[4]<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP,<br>**OPTIONAL**: Safety Interlock | Ethernet RJ-45 TCP/IP, RS422/485, USB<br><br>Open=STBY/Short=RFON | <br><br>BNC Female on rear panel |

4 DMC option may reduce Pout by 1dB.

**38 Jericho Turnpike, Suite 387, Syosset NY, 11791 (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.**

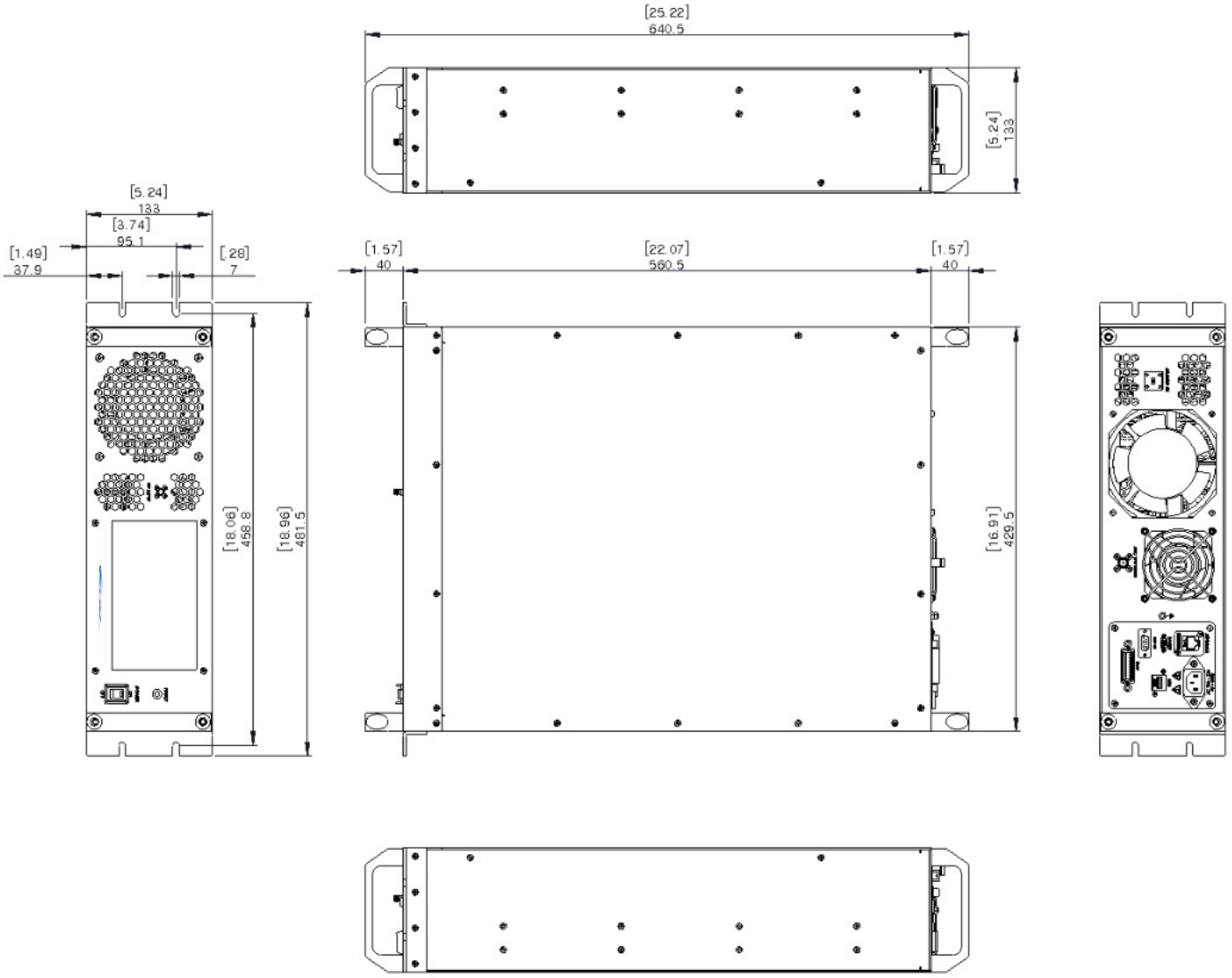
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**AVAILABLE SPECIAL OPTIONS**

| 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 | 11-points standard[5] |

5 Consult with factory if additional points would be required

## OUTLINE DRAWING
## SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER





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