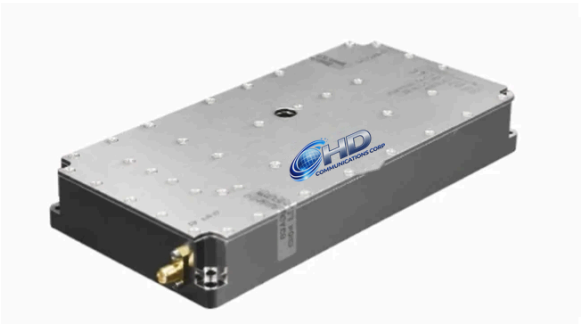
# HD35093
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Designed for EMC-EMI/RFI, Lab, and general comm
Class AB linear GaN design
Instantaneous ultra-wide bandwidth
High power covering P, L & S bands
Suitable for all Single channel modulation standards
Small form factor & light weight
Built-in protection circuits
High reliability and ruggedness



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

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 700 - 2100 MHz | |
| Power Output @ Psat | 50 Watt Min | CW |
| Power Gain | 47 dB Min | 0dBm or less for rated Pout |
| Power Gain Flatness | 3.0 dB p-p Max | Constant input power |
| Input Return Loss | -10 dB Max | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | 37dBm/Tone, Δ = 1MHz |
| Harmonics 2nd/ 3rd | -15 dBc / -20 dBc Typ | At rated Pout |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 28 - 30 VDC | |
| Current Consumption | 8 Amp Max | At rated Pout |
| Input Power Protection | +5 dBm Max | <10 Sec Without damage |
| Load VSWR Protection | 5 : 1 Max[1] | <1 Minute @ rated output |

1 Modules could be damaged due to excessive VSWR beyond 1 minute

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Case Temperature | -20 to +75 °C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | up to 95 % | Non-condensing |
| Altitude | 3000 meters | |
| Shock & Vibration | Normal transport[2] | |

2 MIL Spec available for quotation

**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions | 188 x 91.4 x 27 mm | Excluding connectors |
| Weight | 950 gr. | |
| RF Connectors In/Out | SMA female | |
| DC Power / Interface Connector | 9-Pin D-Sub | |
| Cooling | External Heatsink | Forced air required |

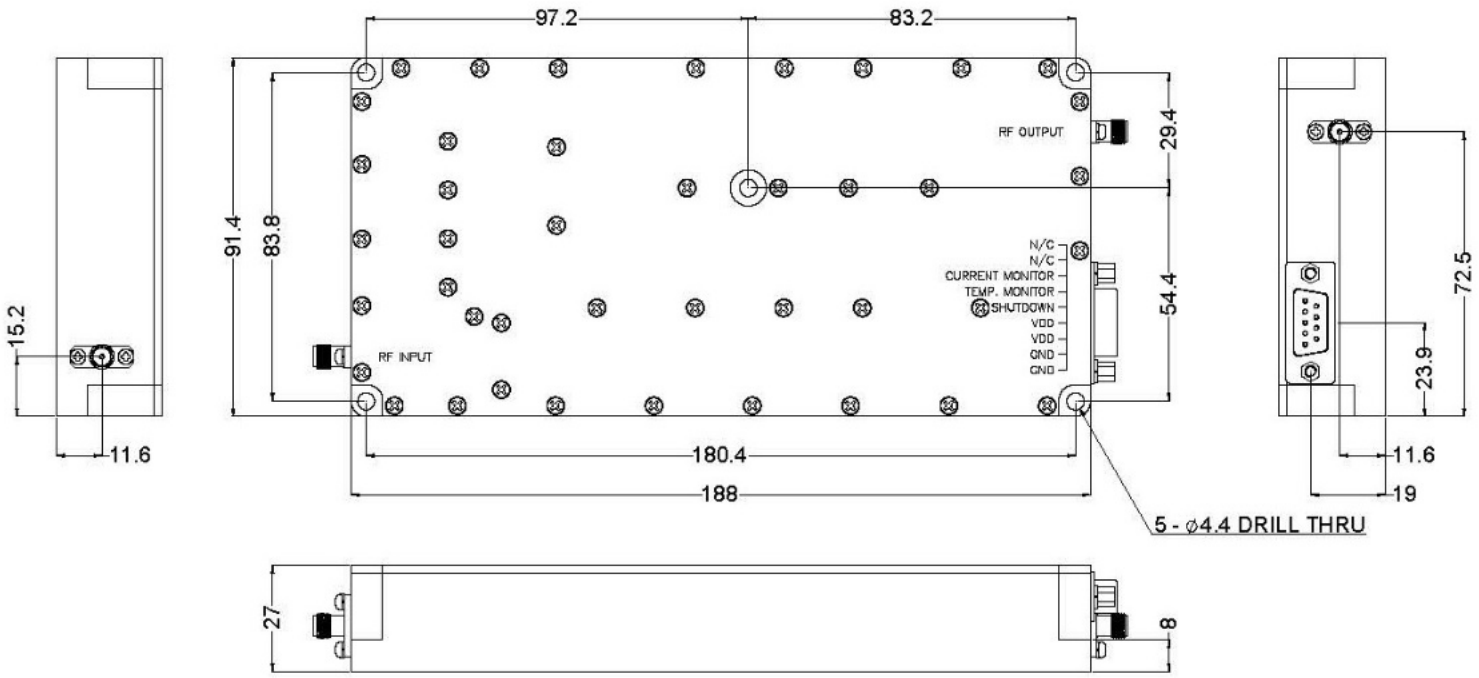
**D-SUB CONNECTOR PIN ASSIGNMENT**

| Pin | Function | Description |
|---|---|---|
| 1 | N/C | N/C |
| 2 | N/C | N/C |
| 3 | CURRENT SENSOR | $I_D$@20mV/100mA Typ |
| 4 | TEMP SENSOR | $V_T$@10mV/°C + 500mV Typ |
| 5 | SHUTDOWN | Enable = TTL High or Open; Disable = TTL Low or Short |
| 6, 7 | VDD | 28VDC |
| 8, 9 | GND | Ground |

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

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## OUTLINE DRAWING





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