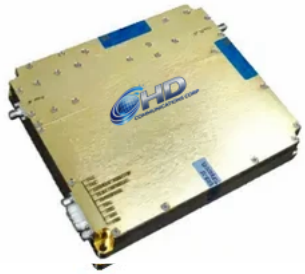
# HD32872
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Class AB GaN design
Instantaneous ultra-wide Bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



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

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 10.5 - 20.2 GHz | |
| Power Output Psat | 10 Watt Min | CW |
| Power Gain | 40 dB Min | |
| Power Gain Flatness | 4 dB p-p Max | |
| Input Return Loss | -10 dB Max | |
| Harmonics 2nd/3rd | -20 dBc Max | -10~-15dBc Typ up to 4GHz |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 32 VDC Nom | |
| Current Consumption | 5.0 Amp Max | At rated Pout |
| Input Power Protection | 0 dBm Max | <10 Sec without damage |
| Load VSWR Protection | 3 : 1 Max | <1 minute at rated Pout |

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Case Temperature | -20 to +65 °C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | 5 to 95 % | Non-condensing |

**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions | 160 x 140 x 27 mm | Excluding connectors |
| Weight | 1.4 Kg. | |
| RF Connectors In/Out | SMA female | |
| DC Power / Interface Connector | 9-Pin D-Sub | |
| Cooling | External Heatsink | Forced air required |

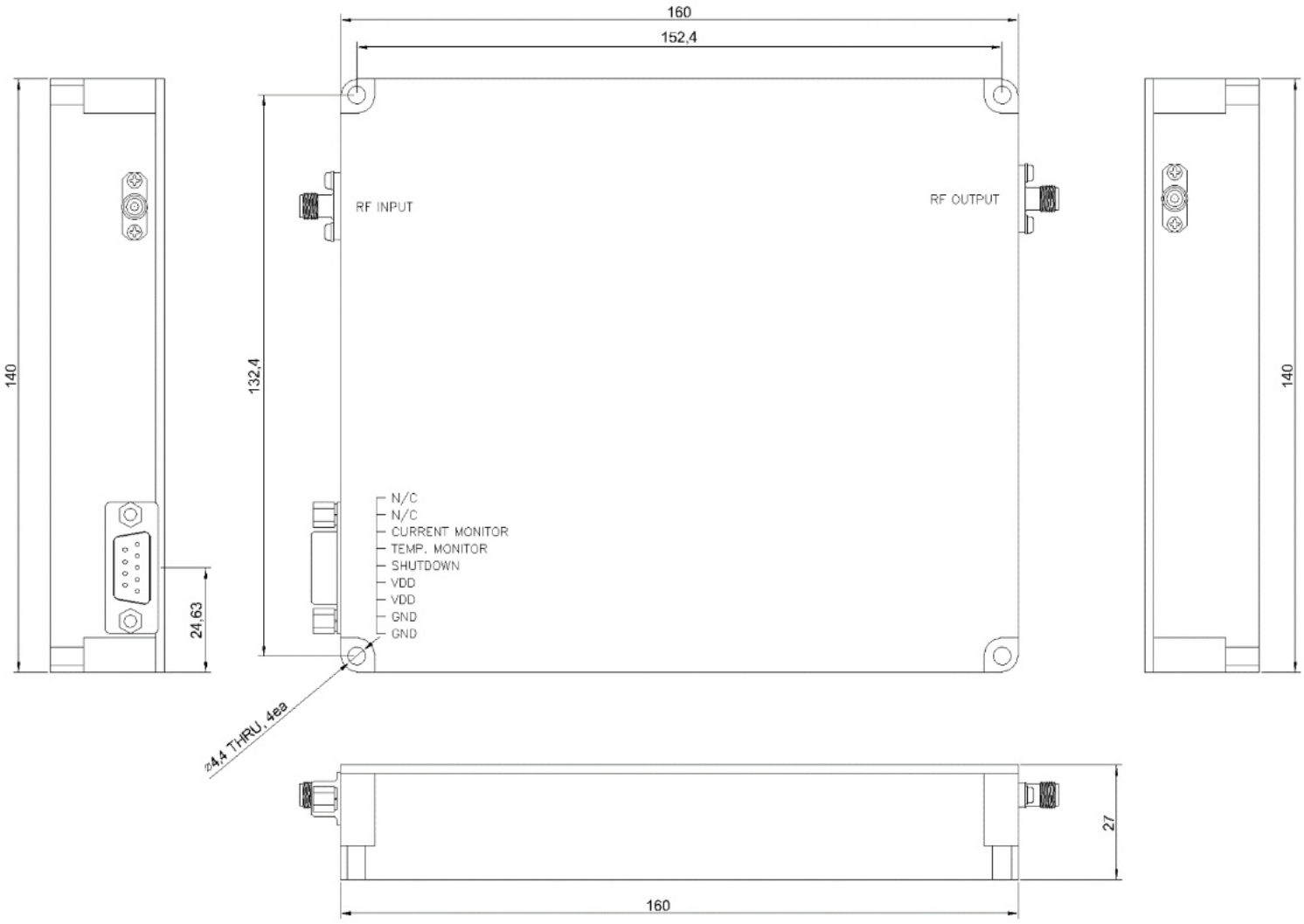
**D-SUB CONNECTOR PIN ASSIGNMENT**

| Pin | Function | Description |
|---|---|---|
| 1 | N/A | N/A |
| 2 | N/A | N/A |
| 3 | CURRENT SENSOR | $I_D$@50mV/100mA Typ |
| 4 | TEMP SENSOR | $V_T$@10mV/°C + 500mV Typ |
| 5 | SHUTDOWN | Enable = TTL "High" or OPEN / Disable = TTL "Low" or GND |
| 6, 7 | VDD | 32VDC |
| 8, 9 | GND | Ground |

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## OUTLINE DRAWING





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