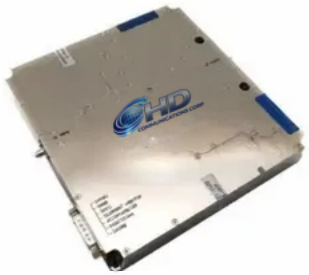
# HD35211
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Designed for EMC-EMI/RFI, Lab, and general comm applications
Small form factor, high power density
Class A/AB linear advanced technology design
Instantaneous bandwidth
Suitable for X-Band CW linear applications
Built-in protection circuits
High reliability and ruggedness



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

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 8.0 - 12.0 GHz | |
| Power Output @ Psat | 100 Watt Min / 120 Watt Typ | CW |
| Power Gain | 50 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 | |
| Harmonics | -25 dBc Max | At rated Pout |
| Spurious | -60 dBc Max | Non-harmonics |
| Noise Figure | 10 dB Max | |
| Operating Voltage | 32 VDC Nom | |
| Current Consumption | 23 Amp Max / <20 Amp Typ | At rated Pout |
| Input Power Protection | +3 dBm Max | <10 Sec without damage |
| Load VSWR Protection | 5 : 1 Max | <1 minute at rated Pout |

**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 | 45000 feet[1] | |
| Shock & Vibration | Normal transport[2] | |

1 For airborne applications, designed to meet, testing will be quoted.
2 MIL Spec available for quotation.

**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions | 180 x 200 x 27 mm | Excluding connectors |
| Weight | 4 Kg. | |
| RF Connectors In/Out | SMA female / Type-N female | |
| DC Power / Interface Connector | 7-Pin Hybrid D-Sub | |
| Cooling | External Heatsink | Forced air required |

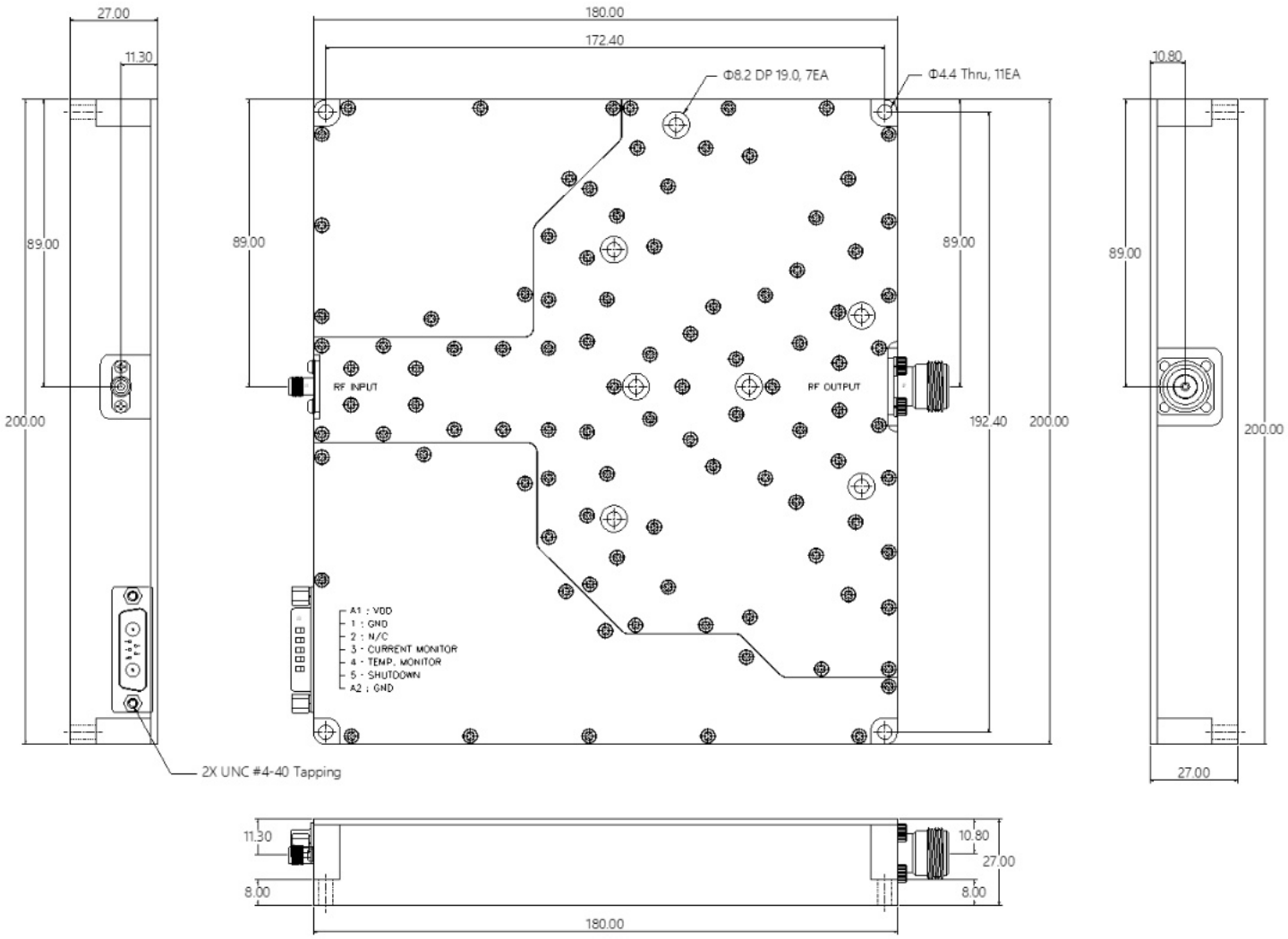
**D-SUB CONNECTOR PIN ASSIGNMENT**

| Pin | Function | Description |
|---|---|---|
| 1 | Not Used | N/A |
| 2 | Not Used | N/A |
| 3 | CURRENT SENSOR | $I_D$@20mV/100mA Typ |
| 4 | TEMP SENSOR | $V_T$@10mV/°C + 500mV Typ |
| 5 | SHUTDOWN | Enable = TTL "High" (>3.2V) or Open / Disable = TTL "Low" or Short |
| A1 | VDD | 32VDC |
| A2 | GND | Ground |

338 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.

# HD35211
# SOLID STATE HIGH POWER AMPLIFIER

## OUTLINE DRAWING





**338 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.**