# HD35285
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness

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

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 50 - 6000 MHz | |
| Power Output @ P1dB | 25 dBm Min | CW |
| Power Gain | 25 dB Min | 0dBm or less for rated Pout |
| Gain Flatness | 3.0 dB p-p Max | |
| Input Return Loss | 10 dB Min | |
| Harmonics $2^{nd}$/ $3^{rd}$ | -15 dBc / -20 dBc Typ | At rated Pout |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | 15dBm/Tone, Δ = 1MHz |
| Non Harmonics Spurious | -60 dBc Max | |
| Operating Voltage | 12 VDC Nom | |
| Current Consumption | 1 Amp Max | At rated Pout |
| Input Power Protection | +8 dBm Max | Without damage |
| Load VSWR Protection | ∞ : 1 | |

**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[1] | |

1 MIL Spec available for quotation

**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions | 60 x 50 x 27 mm | |
| Weight | TBD | |
| RF Connectors In/Out | SMA female | |
| DC Power / Interface Connector | Feed-Thru | |
| Cooling | External Heatsink | Forced air required |

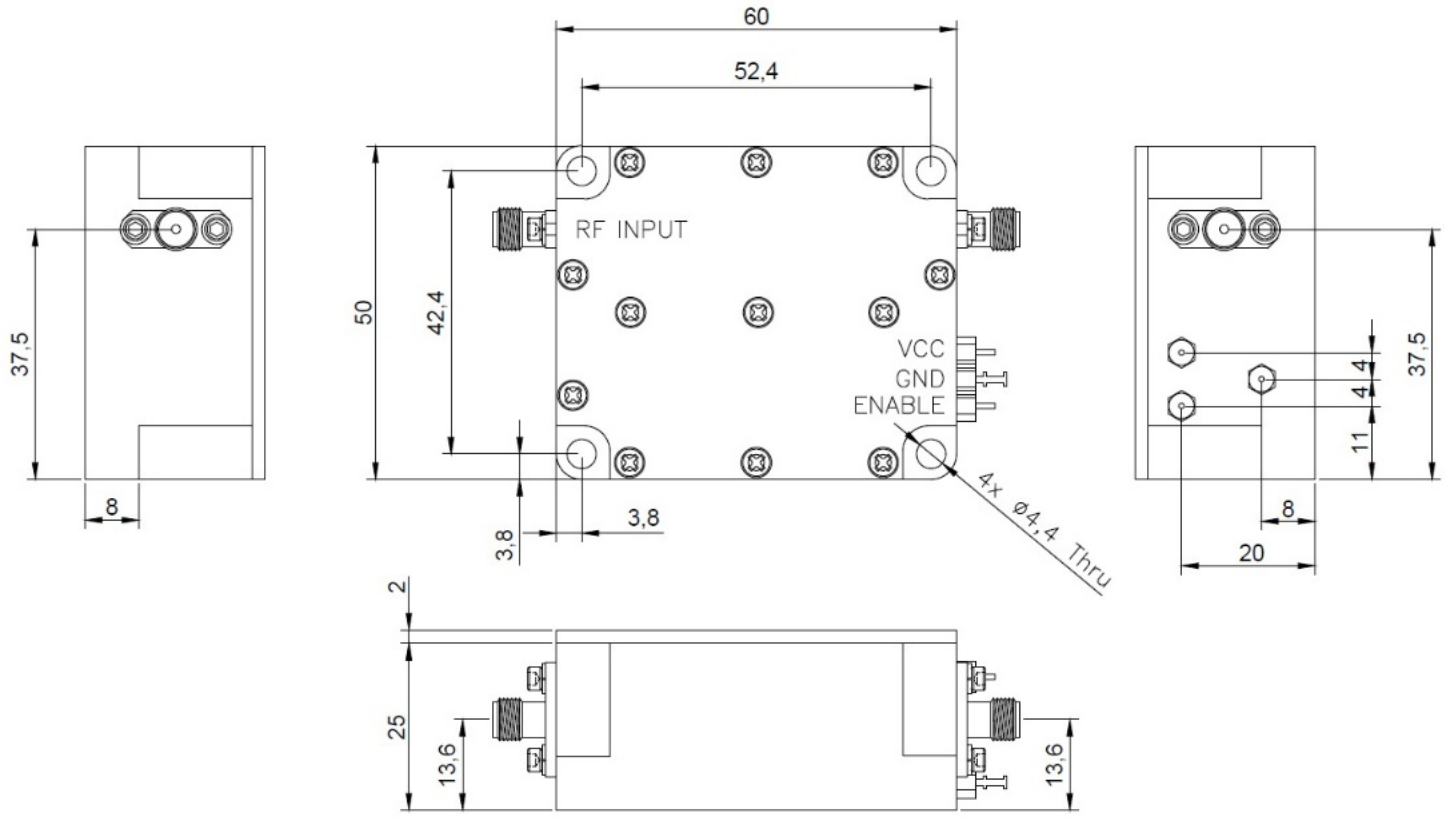
**PIN ASSIGNMENT**

| Pin | Function | Description |
|---|---|---|
| 1 | SHUTDOWN | TTL |
| 2 | VDD | 12VDC |
| 3 | 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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