# HD35113
# SOLID STATE MEDIUM POWER AMPLIFIER

**FEATURES**

Class A/AB linear design
Instantaneous ultra-broad Bandwidth
Suitable for all single channel modulation standards
Small form factor and light weight
Built-in protection circuits
High reliability and ruggedness



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

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 8.0 - 18.0 GHz | |
| Power Output @ P1dB | 31 dBm (1.3 Watt) Min | CW |
| Power Gain | 31 dB Min | |
| Power Gain Flatness | +/- 2.0 dB p-p Max | |
| Input Return Loss | 10 dB Typ | |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | 21dBm/Tone, Δ = 1MHz |
| Harmonics | -20 dBc Typ | At rated Pout |
| Noise Figure | 6.0 dB Max | |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 15 VDC Nom / 2.0A | |
| Current Consumption | 2.0 Amp Typ | At rated Pout, 2.0A Typ |
| Input Power Protection | +10 dBm Max | |

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Case Temperature | -30 to +55 °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 | 76.4 x 55.5 x 24.5 mm | Excluding connectors |
| Weight | 850 gr. Typ | |
| RF Connectors In/Out | SMA female | |
| DC Power | Feed Thru | |
| Cooling | External Heatsink | Forced air required |

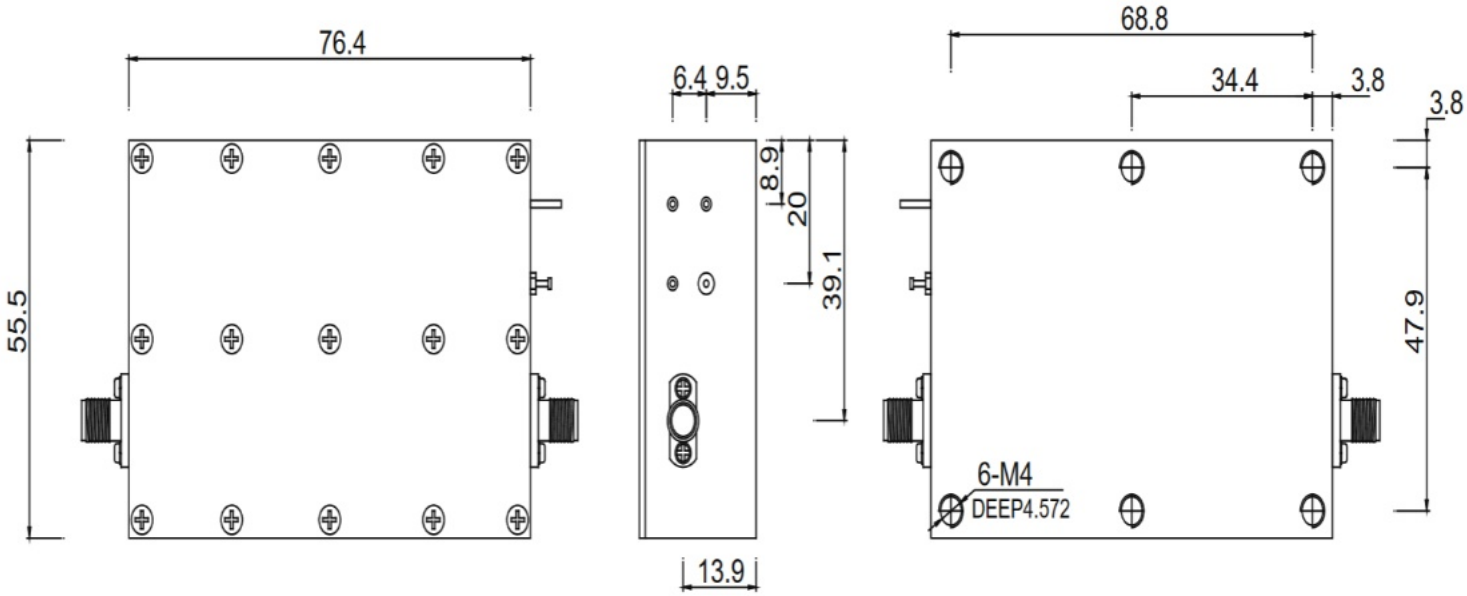
**PIN ASSIGNMENT**

| Pin | Function | Description |
|---|---|---|
| 1 | DC Voltage | +15VDC |
| 2 | GND | GND |

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## OUTLINE DRAWING




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