# HD35275
# SOLID STATE LOW NOISE AMPLIFIER

**FEATURES**

Class A linear design Coax Power Amplifier
Low noise over wide-bandwidth
RF Ports Matched to 50 Ohms
Internal DC Voltage Regulation
Suitable for all single channel modulation standards
Unconditional stability high reliability and ruggedness
Reverse polarity protection with built-in protection circuits



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

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 2.0 - 18.0 GHz | CW |
| Power Output @ P1dB | 20 dBm Min | 22dBm Typ |
| Power Gain | 20 dB Min | 27 dB Typ |
| Gain Flatness | 2.0 +/- dB p-p Max | |
| Input Return Loss | -10 dB Max | |
| Noise Figure | 4.0 dB Max | |
| Harmonics | -20 dBc Typ | At rated Pout |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 13 - 18 VDC Nom | 15VDC Typ |
| Current Consumption | 0.350 Amp Max | |
| Input Power Protection | +8 dBm Max | |
| Load VSWR Protection | 5 : 1 Max | |

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Case Temperature | -40 to +75 °C | |
| Storage Temperature | -65 to +125 °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 | 18.1 x 16.3 x 7.7 mm | Excluding connectors |
| Weight | 10 gr. Typ | |
| RF Connectors In/Out | SMA female | |
| DC Power / Interface Connector | Feed-Thru | |
| Cooling | External Heatsink | Forced air required |

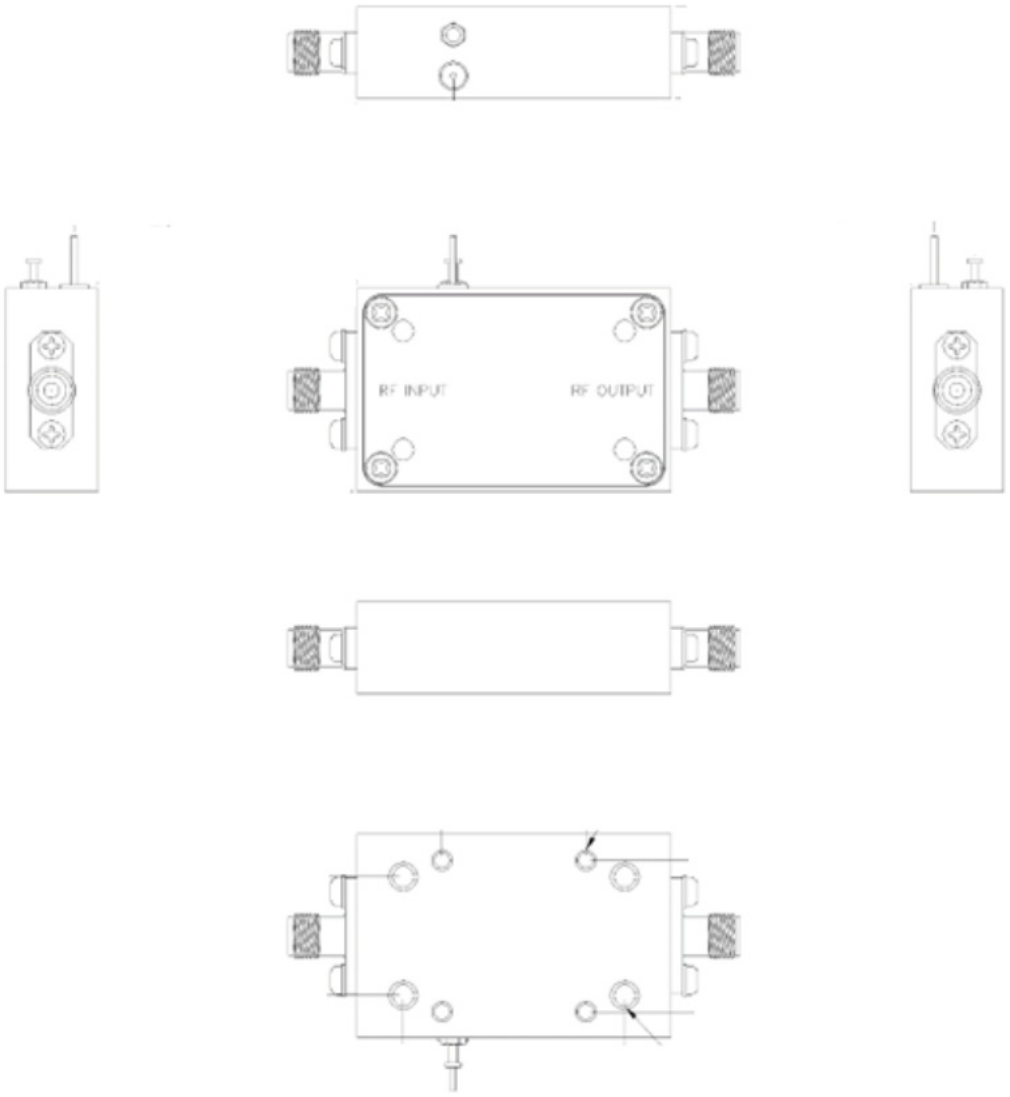
**PIN ASSIGNMENT**

| Pin | Function | Description |
|---|---|---|
| 1 | VDD | 15VDC |
| 2 | GND | Ground |

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## OUTLINE DRAWING




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