# HD31151
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Class AB GaAs linear design
Instantaneous wide Bandwidth
Suitable for CW, Pulse and all modulation standards
Built-in protection circuits
High reliability and ruggedness

**ELECTRICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 6.0 - 18.0 GHz | |
| Power Output Psat | 1 Watt Min | CW |
| Power Output P1dB GCP | 27 dBm Min - 28 dBm Max | CW |
| Gain @ P1dB GCP | 26 dB Min - 29 dB Max | |
| Power Gain Flatness | 2 dB p-p Max | |
| Gain Variation Over Temperature | ±1.5 dB Max | |
| Input Return Loss | >10 dB Typ | Relative to 50 Ohm |
| Harmonics | >20 dBc | At rated Pout |
| Noise Figure | 6 dB Max | |
| Spurious | >60 dBc | Non Harmonics |
| Operating Voltage | 12 - 15 VDC | |
| Current Consumption | 1.2 Amp Max | At rated Pout |
| Max Input Power | +8 dBm Max | Without damage |
| Load VSWR | 5 : 1 Max | |
| AM/PM | 3 Deg/dB Max | Any Freq. across bandwidth |

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Case Temperature | -20 to +70 °C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | 5 to 95 % | Non Condensation |

**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions | 50 X 28 X 10 mm | Excluding Connectors |
| Weight | TBD | |
| RF Connectors In/Out | SMA female | Cover Flange |
| DC Power | Feed Thru | |
| Mounting Holes | 4 Nos., M 2.5 through holes | |
| Sealing | Hermetic | |

**PIN ASSIGNMENT**

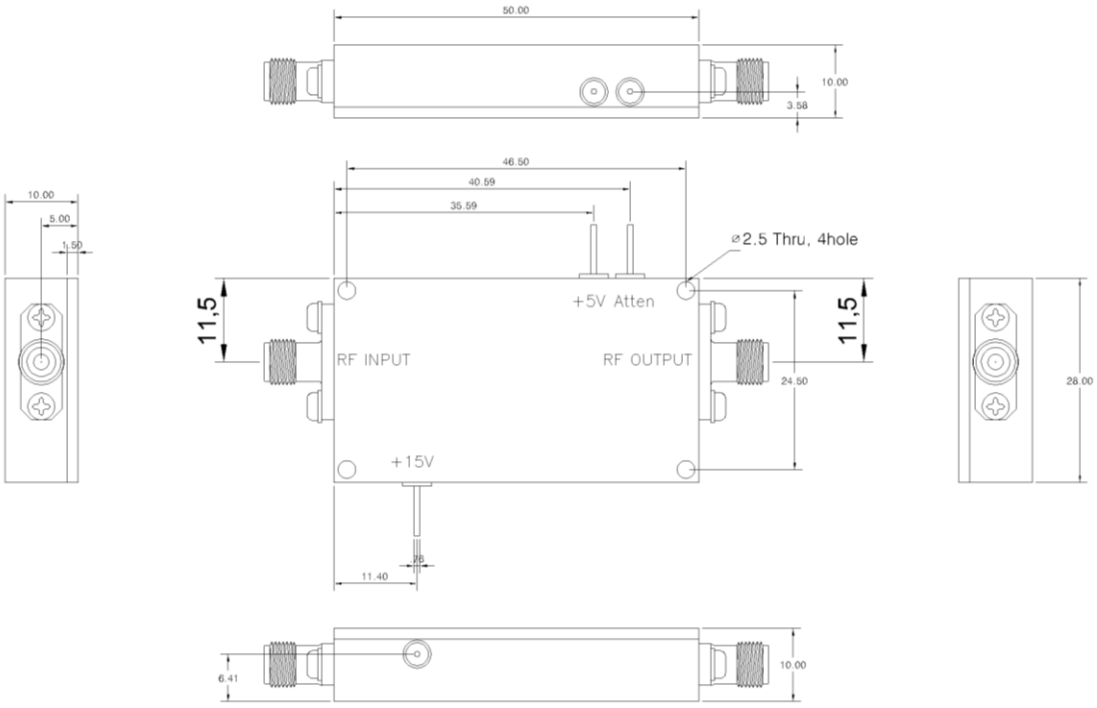
| Pin | Function | Description |
|---|---|---|
| 1 | DC Voltage | +15VDC |
| 2 | GND | GND |

**332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518**
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**OUTLINE DRAWING**

Atten: +2.6V ~ -0.8V, 20dB range





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