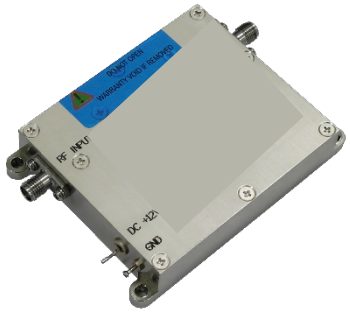
# HD31935
# SOLID STATE HIGH POWER AMPLIFIER

Communications Corp.




**FEATURES**

Class AB GaAs linear design
Instantaneous ultra-wide Bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness

**ELECTRICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 2.0 - 20.0GHz | |
| Power Output Psat | 1 Watt Min | CW / 18 - 20GHz 29dBm |
| Power Output P1dB GCP | 0.5 Watt Min | CW |
| Small Signal Gain | 30 dB Min | |
| Power Gain Flatness | 4 dB p-p Max | |
| Input Return Loss | -10 dB Typ | |
| Harmonics | -20 dBc Typ | At rated Pout |
| Noise Figure | 6 dB Max | |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 12 VDC ±0.2V | |
| Current Consumption | 0.6 Amp Max | At rated Pout |
| Input Power Protection | +8 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 +70°C | |
| Storage Temperature | -40 to +85°C | |
| Relative Humidity | 5 to 95 % | Non-condensing |

**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions | 70 x 60 x 15 mm | Excluding connectors |
| Weight | 300 gr. | |
| RF Connectors In/Out | Hi-Freq. SMA female | |
| DC Power | Feed Thru | |
| Cooling | External Heatsink | Forced air required |

**PIN ASSIGNMENT**

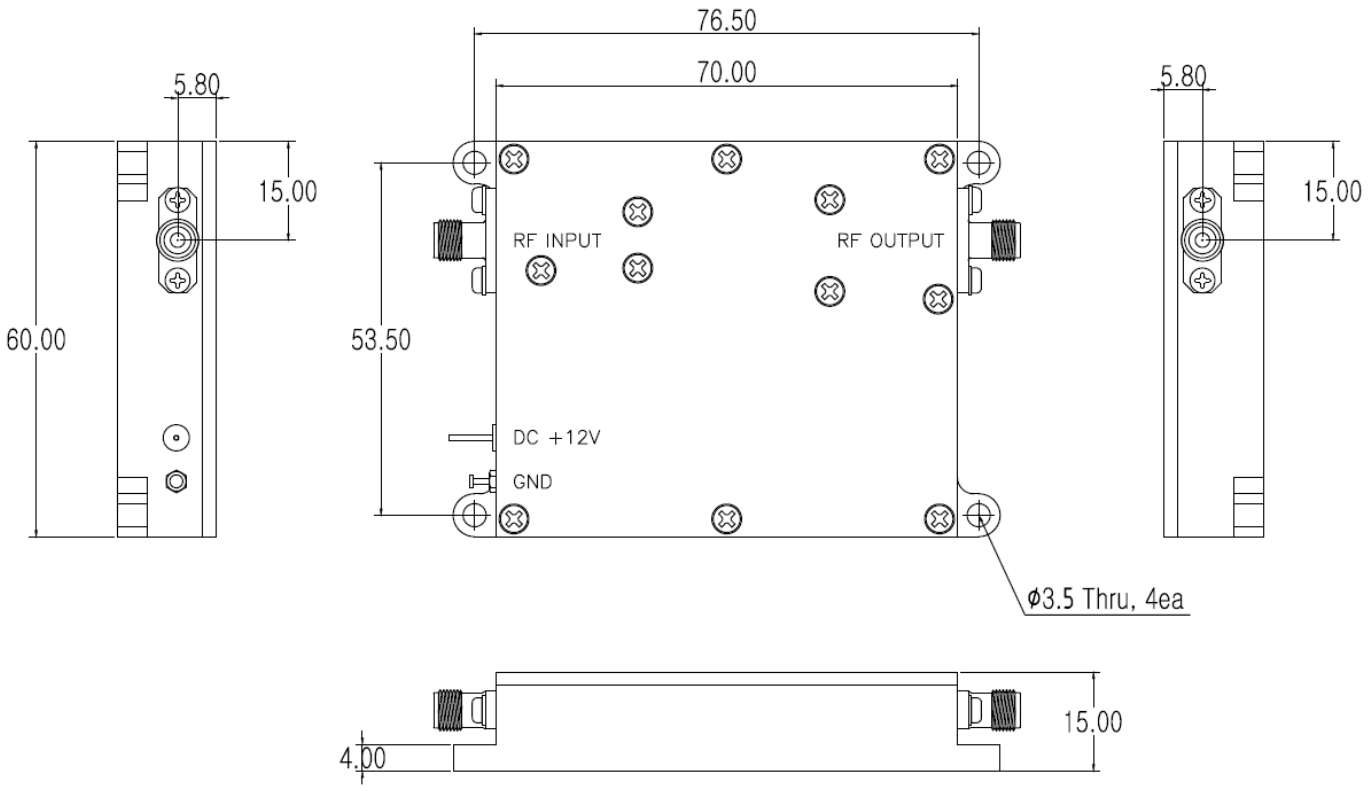
| Pin | Function | Description |
|---|---|---|
| 1 | DC Voltage | +12VDC |
| 2 | GND | GND |

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**OUTLINE DRAWING**




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