HD Communications Corp.

# HD31059
# SOLID STATE HIGH POWER AMPLIFIER

**PRELIMINARY**

**FEATURES**

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

**ELECTRICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 3.1 - 3.5 GHz | |
| Power Output | 100 Watt Min | CW |
| Power Gain | 12 dB Typ | |
| Power Gain Flatness | ±1.0 dB Max | |
| Input Power for Rated Output | 6 Watt Nom | |
| Input / Output VSWR | -1.35:1 / 2:1 | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | 30 dBc Typ | 40dBm/Tone, Δ = 1MHz |
| Non Harmonics Spurious | 60 dBc Max | |
| Operating Voltage | 28 VDC ± 0.5 V | |
| Current Consumption | 12 Amp Max | At rated Pout |
| Max Input Power | 8 Watt | Without damage |
| Load VSWR Protection | 5 : 1 Min | |
| Turn On / Off Speed | TBD | |

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Note |
|---|---|---|
| Operating Case Temperature | -30 to +75 °C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | 5 to 95 % | Non Condensation |

**MECHANICAL SPECIFICATIONS**

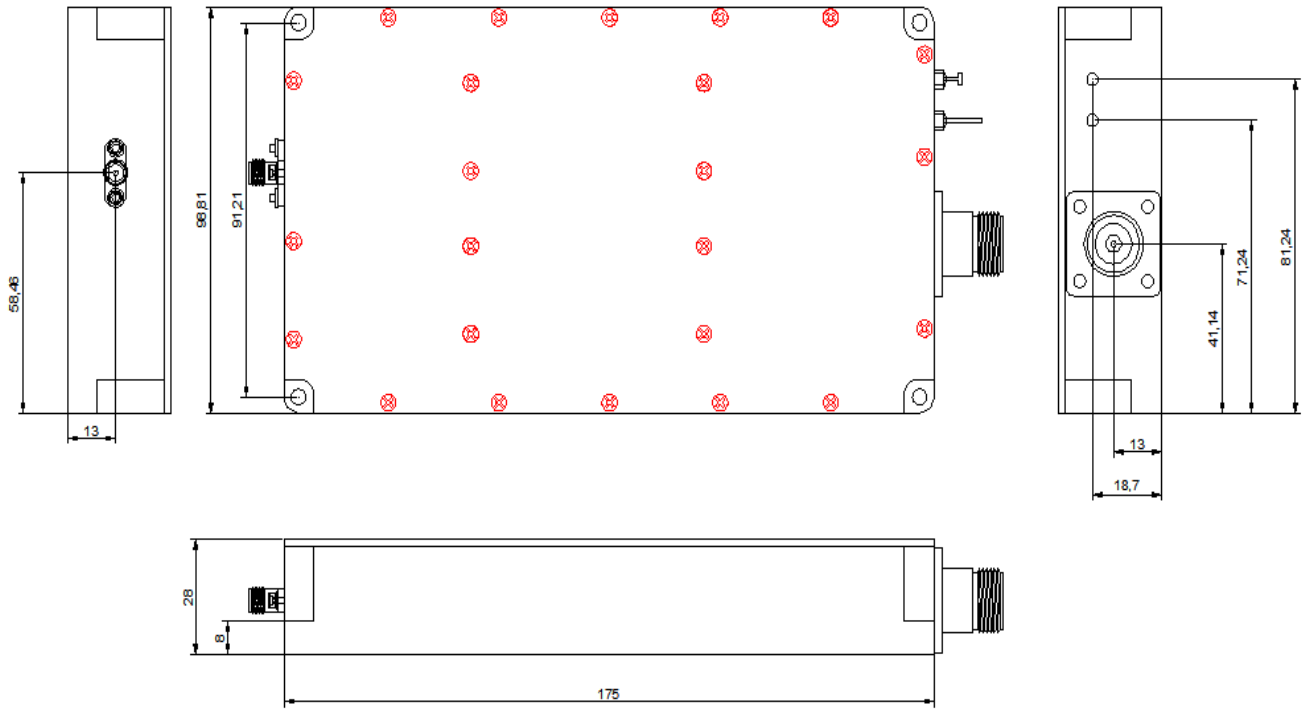
| Parameter | Specification | Note |
|---|---|---|
| Dimensions | 175 X 100 X 28 mm | Excluding Connectors |
| Weight | TBD | |
| RF Connectors In/Out | SMA female / Type-N female | |
| DC Power | Feed Thru | |
| Cooling | External Heatsink | Forced air required |

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




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