# CORRY MICRONICS, INC   PRODUCT SPECIFICATION

## CMIPA-G09P32
## 935-960 MHz GSM SOLID STATE HIGH POWER AMPLIFIER

### Electrical Specifications

| Parameters | Specifications | Note |
|---|---|---|
| Operating Frequency | 935-960MHz | |
| Signal Type | GSM, PAR 0dB | |
| Nominal Output Power | 32W | |
| Nominal Gain | 33dB | |
| Gain with ALC off +/- 1 dB | 33±1dB | Room temperature Value of attenuator 8.5dB |
| | 33±1.5dB | Low and high temperature Value of attenuator 8.5dB |
| Input return loss | 18dB | |
| Output return loss | 18dB | |
| Tx ALC control range vs. Tx input level change, Min. | 16 dB (Nominal input +/-8dB) | |
| ALC set range | 16dB (45dBm~30dBm) | |
| ALC set step | 0.5dB | |
| ALC Control Accuracy | ±1 dB | |
| Attenuator Set Range | 31dB | ALC OFF |
| Attenuator Set Step | 0.25dB | ALC OFF |
| Initial value of attenuator | 8.5dB | |
| Max input level, no damage and degradation | +15dBm | Adjust the attenuator to maintain output power |
| Noise Figure | ≤20dB | ALC OFF |
| DC Power | +28V | |
| Efficiency | ≥40%@32W | |
| Output load mismatch tolerance | Isolator protected | |

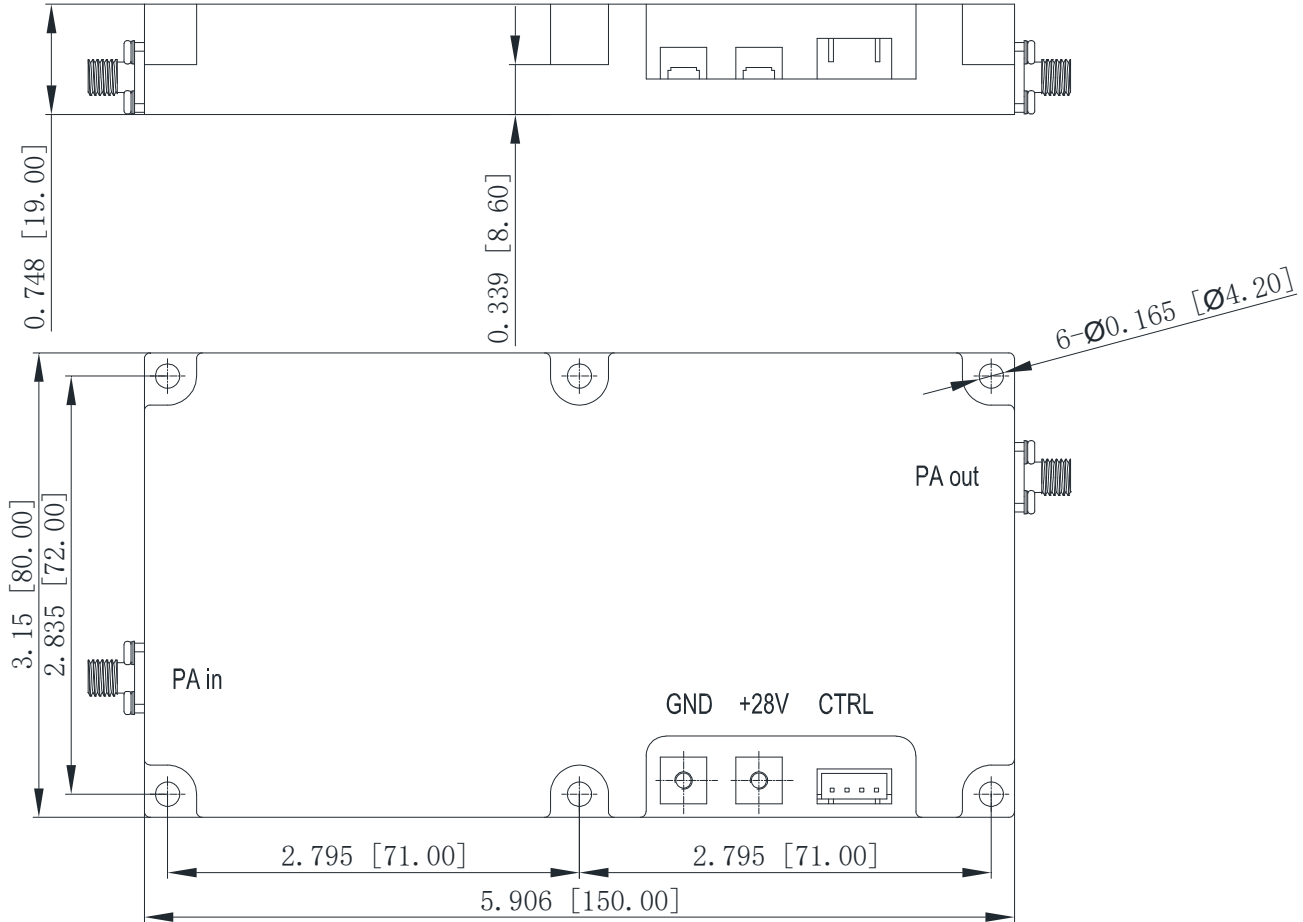| Parameters | Specifications | Note |
|---|---|---|
| Max operating base temperature | 90℃ | If temp higher than 90℃, the PA will be shut down |
| Power consumption when muted | <5W | |
| Forward power monitor | Range: 30dB, 48dBm~19dBm<br>Resolution: 0.1dBm<br>Accuracy: ±2dB | |
| Reverse power monitor | Range: 30dB, 48dBm~19dBm<br>Resolution: 0.1dBm<br>Accuracy: ±2dB | |
| DC Current monitor | Range: 0-15A<br>Resolution: 0.1A<br>Accuracy: ±5% | |
| Temperature monitor | Range: -40℃~+105℃<br>Resolution: 1℃<br>Accuracy: ±3℃ | |

## Environmental Specifications

✧ Environment Temp.：0℃ ~ +50℃

✧ Humidity：5%RH~96%RH

✧ Atmospheric Pressure：70kPa~106kPa

# Dimensions (Inches)

0.748 [19.00]

0.339 [8.60]

6-Ø0.165 [Ø4.20]

PA out

3.15 [80.00]

2.835 [72.00]

PA in

GND    +28V    CTRL

2.795 [71.00]        2.795 [71.00]

5.906 [150.00]