



CORRY MICRONICS, INC PRODUCT SPECIFICATION

CMIPA-U09P45 935-960 MHz UMTS SOLID STATE HIGH POWER AMPLIFIER

Electrical Specifications

| Parameters | Specifications | Note |
|--|---------------------------------|---|
| Operating Frequency | 935-960MHz | |
| Signal Type | UMTS, PAR 9.7dB | |
| Nominal Output Power | 45W | |
| ACLR | $\leq -45\text{dBc}$ | |
| EVM (Max) | $<8\%$ @ Specified Output Power | |
| Nominal Gain | 44dB | |
| Gain with ALC off +/- 1 dB | 44 \pm 1.2dB | Room temperature Value of attenuator 8.5dB |
| | 44 \pm 1.8dB | 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 (46.5dBm~31.5dBm) | |
| 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 | +5dBm | Adjust the attenuator to maintain output power |
| Noise Figure | $\leq 20\text{dB}$ | ALC OFF |
| DC Power | +28V | |

CALL OUR SALES DEPARTMENT FOR MORE INFORMATION OR VARIATIONS OF THIS PRODUCT.

Corry Micronics, Inc. One Plastics Rd. - Corry, PA 16407
(724) 940-7556 ext. 138 Fax (724) 940-7707 www.cormic.com

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| Parameters | Specifications | Note |
|--------------------------------|--|--|
| Efficiency | ≥25%@45W | |
| Output load mismatch tolerance | Isolator protected | |
| Max operating base temperature | 90°C | If temp higher than 90°C, the PA will be shut down |
| Power consumption when muted | <5W | |
| Forward power monitor | Range: 30dB, 50dBm~21dBm Resolution: 0.1dBm Accuracy: ±2dB | |
| Reverse power monitor | Range: 30dB, 50dBm~21dBm Resolution: 0.1dBm Accuracy: ±2dB | |
| DC Current monitor | Range: 0-15A Resolution: 0.1A Accuracy: ±5% | |
| Temperature monitor | Range: -40°C~+105°C Resolution: 1°C Accuracy: ±3°C | |

Environmental Specifications

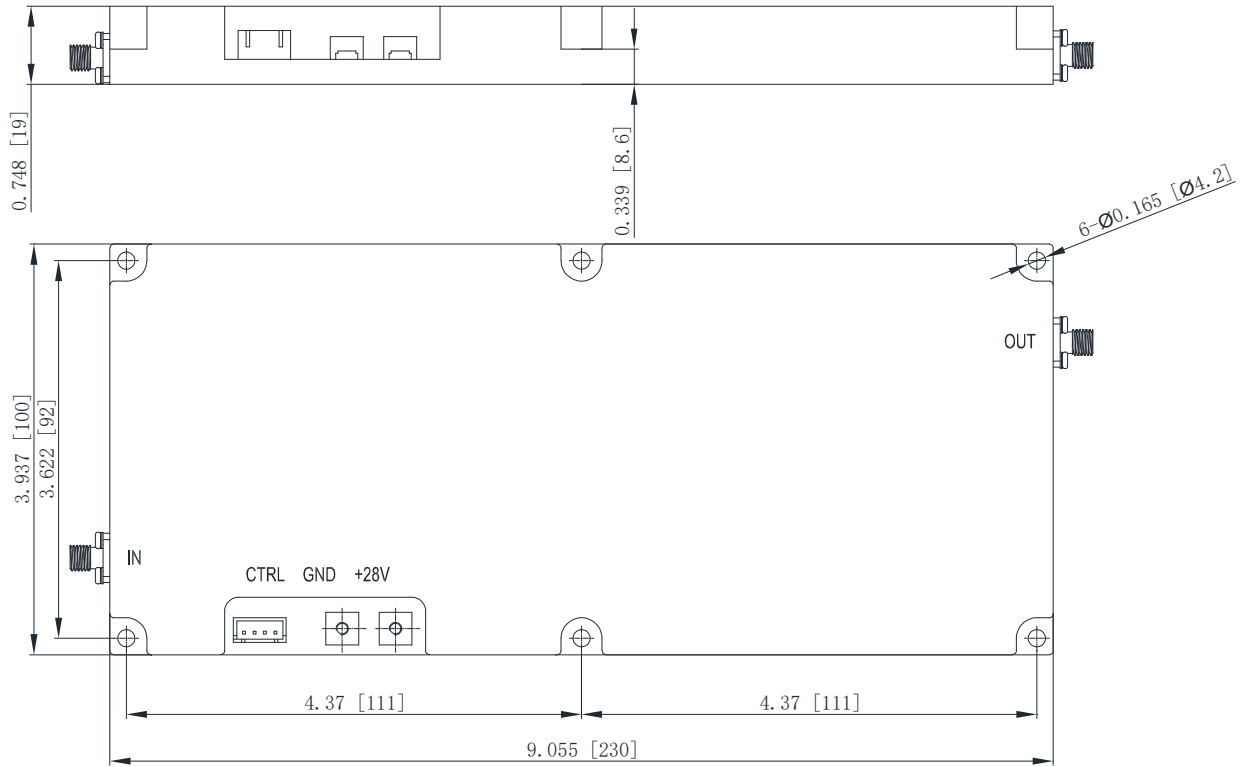
- ✧ Environment Temp.: 0°C ~ +50°C
- ✧ Humidity: 5%RH~96%RH
- ✧ Atmospheric Pressure: 70kPa~106kPa

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Dimensions (Inches)



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