



CORRY MICRONICS, INC **PRODUCT SPECIFICATION**

CMIPA-U21P45
2110-2170 MHz UMTS SOLID STATE HIGH POWER AMPLIFIER

Electrical Specifications

Parameters	Specifications	Note
Operating Frequency	2110-2170MHz	
Signal Type	UMTS, PAR 9.7dB	
Nominal Output Power	45W	
ACLR	≤-45dBc	
EVM (Max)	<8% @ Specified Output Power	
Nominal Gain	44dB	
Gain with ALC off +/- 1 dB	44±1.2dB	Room temperature Value of attenuator 8.5dB
	44±1.8dB	Low and high temperature Value of attenuator 8.5dB
Input return loss	17dB	
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	≤21dB	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

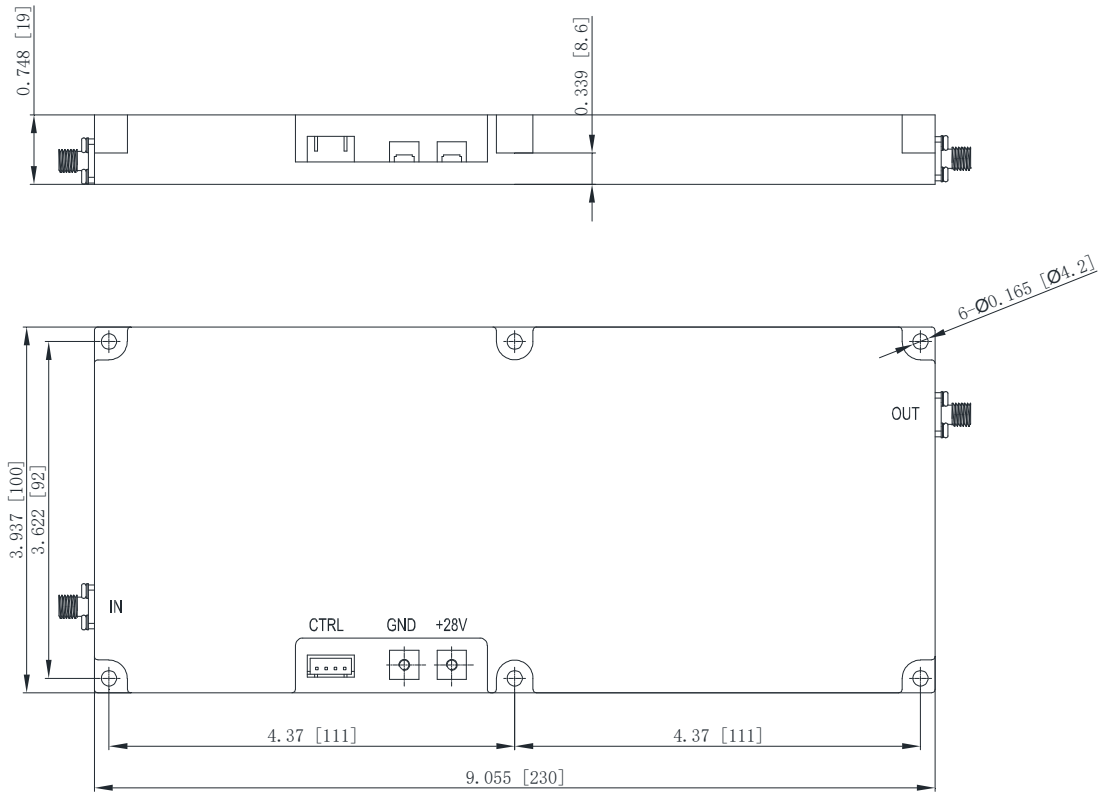
- ✧ Environment Temp.: 0°C ~ +50°C
- ✧ Humidity: 5%RH~96%RH
- ✧ Atmospheric Pressure: 70kPa~106kPa

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Dimensions (inches)



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