

Product Specification

CMIPA-L18P45 1805-1880 MHz LTE SOLID STATE HIGH POWER AMPLIFIER

Electrical Specifications

Parameters	Specifications	Note
Operating Frequency	1805-1880MHz	
Signal Type	LTE, PAR 9.8dB	
Nominal Output Power	45W	
ACLR	≤-45dBc	
EVM [Max]	<8% @ Specified Output Power	
Nominal Gain	51dB	
Gain with ALC off +/- 1 dB	51±1.5dB	Room temperature Value of attenuator 8.5dB
	51±2dB	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	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	0dBm	Adjust the attenuator to maintain output power
Noise Figure	≤10dB	ALC OFF
DC Power	+28V	

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Efficiency	$\geq 25\%$ @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: ± 2 dB	
Reverse power monitor	Range: 30dB, 50dBm~21dBm Resolution: 0.1dBm Accuracy: ± 2 dB	
DC Current monitor	Range: 0-15A Resolution: 0.1A Accuracy: $\pm 5\%$	
Temperature monitor	Range: -40~+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

Dimensions (Inches)

