



重庆盟讯电子科技有限公司
CHONGQING UNICATION ELECTRONIC TECHNOLOGY CO.,LTD

SPECIFICATION

修订表Amendment list

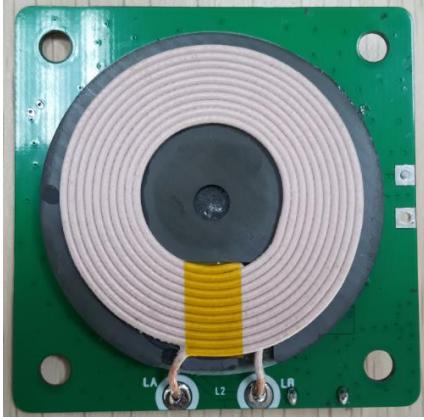
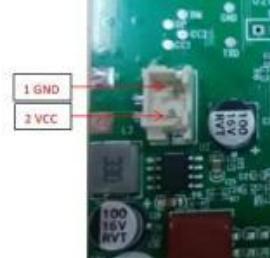
编号	版本号	修订人	修订内容	日期
1	V1.3	Chen Canlun		2023/09/13

审批记录Approval record

版本号	审批人	审批意见	日期
V1.3			



• MXC-A19 Wireless charging module specification V1.3

Product functional specification definition		
Product functional specification definition	Functional item	Function description
Structure appearance	appearance	 
	PCB size (mm)	60*60 (mm)
Configuration and functions	Supply voltage	DC12V ±20%
	Power interface definition	2PIN Power interface definition: 1pin----GND; 2pin----VCC , 12V; 
	Wireless charging protocol	<ul style="list-style-type: none">◆ Supports QC2.0/3.0 and PD3.0 input requests◆ Supports Qi protocol BPP and PPDE authentication◆ conforms to the WPC1.2.4 standard
	charging power	5W、7.5W、10W、15W Output application
	Foreign body detection	<ul style="list-style-type: none">◆ Supports FOD foreign body detection◆ Foreign body size: 1 yuan coin is standard
	Low static power and efficiency	<ul style="list-style-type: none">◆ Static current \leq25mA◆ System charging efficiency $>$ 79% (transmitting coil and receiving coil distance test 2mm)
	Safety	<ul style="list-style-type: none">◆ Overcurrent protection during charging: 2.4A (During the charging process, abnormally large current occurs in the input of the charging chip, and the charge is interrupted).◆ NTC overtemperature protection: $>$ 75°C (broken charge)



		<ul style="list-style-type: none">◆ NTC overtemperature protection: 70-75°C (power reduction to 10W or less) NTC overtemperature protection recovery: < 70 °C◆ NTC Low temperature protection: -10°C◆ The power supply requires 12V $\pm 20\%$. The wireless charging module comes with a DCDC voltage regulator circuit and does not support over - and under-voltage protection.
	indicator light	<ol style="list-style-type: none">1、Blue light:<ul style="list-style-type: none">◆ Power-on start, standby: breathing mode◆ Charging, charging complete (full) : Steady on2、Red Light:<ul style="list-style-type: none">Input power low or overtemperature: Steady on3、Overcurrent protection: the red light is on for 1s, and the blue light breathing is resumed
	Charging distance	The best charging distance: The distance between the receiving coil of the charging device and the wireless charging module coil is 2-3mm (including the thickness of the housing).