

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

MODEL NO. : _____ MFIQ2-7460

PART NO. : _____

MODEL NAME: _____ 5-in-1 QI2 wireless charging

REVISION: _____ A1

DATE: _____

APPROVED SIGNATURES

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Model No.	MFIQ2-7460	Model Name	5-in-1 Qi2 wireless charging module
Part No.		Size	180*90*118mm

Product Specification

产品规格书

Product name/产品名称:

五合一Qi2无线充

Model No/ 产品型号:

MFIQ2-7460

File number /文件编号:

Revision/版本号:

A1

Date/日期:



APPROVED BY 批准	CHECKED BY 审核	DESIGNED BY 制作

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目录

1.Scope/概述	5
2. Product Characteristic/产品特点	5
3. Performance Parameter/性能参数	5
4. Security mechanism//安全机制	7
5. Reliability Requirements/可靠性要求	7
6. Environment Requirement/环境要求	8
7.Execution Standards/执行标准	8
8. Attentions 使用注意事项.....	8
9. Size 尺寸	9
10. Weight 重量.....	9
11. Statement / 声明	9

Model No.	MF1Q2-7460	Model Name	5-in-1 QI2 wireless charging module
Part No.		Size	180*90*118mm

Reversion History / 更新记录

Revision	Date	Changes
A0	2023-12-19	初版发行
A1	2024-4-10	新增 2.1 Product accessories 产品配件

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1.Scope/概述

This product is a 15W 5-in-1 Qi2 wireless charging dock, which uses Type-C input and supports PD2.0/3.0 adapters; The product comes with two 5V/1A output ports (USB-A/Type-C). The total input power is approximate 40W.

该产品是一款15W 5合一Qi2无线充电座，产品采用Type-C输入，并支持PD2.0/3.0适配器；产品自带两个5V 1A输出端口（USB-A / Type-C）。总体输入功率大约40W

2. Product Characteristic/产品特点

- ◆Supports I Phone series magnetic phones
支持I Phone系列磁吸手机
- ◆Built in original Apple watch fast charging module, safer and more stable
内置原厂苹果手表快充模组，更安全和稳定
- ◆Supports I Phone series magnetic phones
支持苹果耳机无线充电
- ◆Equipped with a powerful magnet to attach the phone
内置强力磁铁吸附手机。
- ◆5V 1A USB output support one device wired charging.
5V 1A USB 输出支持 1 支设备有线充电
- ◆5V 1A Type-C output support one device wired charging.
5V 1A Type-C 输出支持 1 支设备有线充电

2.1 Product accessories 产品配件

料号 Part number	产品叙述 Description	图片 Photo	备注 Remarks
UNIPA-2175	PD 45W Adapter		
UNICB-7249	1M Type C to C Cable		
UNITD-7312	Plating Black Metal Ring		

3.Performance Parameter/性能参数

3.1 Wireless charging phone of parameters 手机无线充性能参数:

3.1.1	Wireless charging protocol/无线充协议	BPP + MPP (Qi 2.0)
3.1.2	MPP wireless charging output /MPP 无线充电输出	MPP-15W/ BPP-5W/7.5W apple fast charge

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3.1.3	Power Transfer Efficiency/转换效率	75%±5%
3.1.4	Standby Power for MPP module /待机功率	< 350mW
3.1.5	Qi2 Operating frequency / Qi2 工作频率	BPP mode:128KHz MPP mode:360KHz
3.1.6	Magnetism for MPP module / MPP 模块磁力	900gf
3.1.7	Indicator light function/指示灯功能	Reserved (without indicator lights) (无指示灯)

3.2 Wireless charging headphone of parameters 耳机无线充性能参数:

3.2.1	Wireless charging protocol/无线充协议	BPP 2.0
3.2.2	Wireless charging output of headphones 耳机无线充电输出	5W Max
3.2.3	Headphone charging frequency/耳机充电工作频率	BPP mode:110-205KHz
3.2.4	Wireless charging indicator light for headphones 耳机无线充指示灯	Blue light on: charging 蓝灯亮:充电中 Red light flashing: FOD/abnormal operation 红灯快闪: FOD/工作异常

3.3 Wireless charging Apple watch of parameters 手表无线充功能参数

3.3.1	Wireless charging protocol/无线充协议	APPLE IOS protocol
3.3.2	Watch wireless charging output/手表无线充输出	3W Max
3.3.3	Watch charging frequency/手表充电工作频率	326.5KHz-1.778MHz
3.3.4	Wireless charging indicator light for watches 手表无线充指示灯	无

3.4 Other output port parameters 其它接口功能参数:

3.11	USB-A output /USB-A 输出	5V/1A Max, 5W
3.12	USB-C output /USB-C 输出	5V/1A Max, 5W

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4. Security mechanism//安全机制

4.1 MPP-15W transmitter protection mechanism /MPP-15W 发射端保护机制

4.1.1	Protections / 保护	OVP /UVP /OCP /OTP
4.1.2	Input OVP/输入过压保护	9V input:Trigger:10V/ recover:9.5V 5V input:Trigger:5.6V/ recover:5.4V
4.1.3	Input UVP/输入欠压保护	9V input:Trigger:7.5V/ recover:8.5V 5V input:Trigger:4.2V/ recover:4.5V
4.1.4	Input over current protection/输入过流保护	5A Max
4.1.5	Over Temperature Protection/过温保护	Trigger:72°C/ recover:55°C
4.1.6	FOD function/异物检测功能	Q test(pre-power transfer)/Power Transfer FOD

4.2 BPP-5W transmitter protection mechanism /BPP-5W 发射端保护机制

4.2.1	Protections / 保护	OVP /UVP /OCP /OTP
4.2.2	Input OVP/输入过压保护	≥13.0V
4.2.3	Input UVP/输入欠压保护	≤4.4V
4.2.4	Input over current protection/输入过流保护	2.2A Max
4.2.5	Over Temperature Protection/过温保护	Trigger:65°C/ recover:45°C
4.2.6	FOD function/异物检测功能	Stop output, red light flashing 停止输出,红灯闪

4.3 Wireless charging and transmitting end protection mechanism for watches.

手表无线充发射端保护机制

4.3.1	Protections / 保护	OVP /UVP /OCP /OTP
4.3.2	Input OVP/输入过压保护	≥5.5V
4.3.3	Input UVP/输入欠压保护	≤4.4V
4.3.4	Input over current protection/输入过流保护	1A Max
4.3.5	Over Temperature Protection/过温保护	Trigger:55°C/ recover:35°C
4.3.6	FOD function/异物检测功能	无

5. Reliability Requirements/可靠性要求

For other tests, please refer to Reliability Test Specification and Reliability Test Report.

其他测试请参考《可靠性测试规范》与《可靠性测试报告》

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6. Environment Requirement/环境要求

6.1. Operating Temperature and Relative Humidity 操作温度和相对湿度

0°C-40°C 20%RH to 80%RH

6.2. Storage Temperature and Relative Humidity 储存温度和相对湿度

-20°C to +60°C 10%RH to 90%RH

7. Execution Standards/执行标准(Compatible with these specifications)

7.1. EMC Standards 电磁兼容标准

EN55032	EN55035	FCC-Part15
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8. Attentions 使用注意事项

8.1 Please use the correctly configured PD adapter and the output power is higher than 45W to ensure proper functionality.

请使用配置的正确规格 PD 适配器，建议输出功率大于 45W，确保保证功能正常

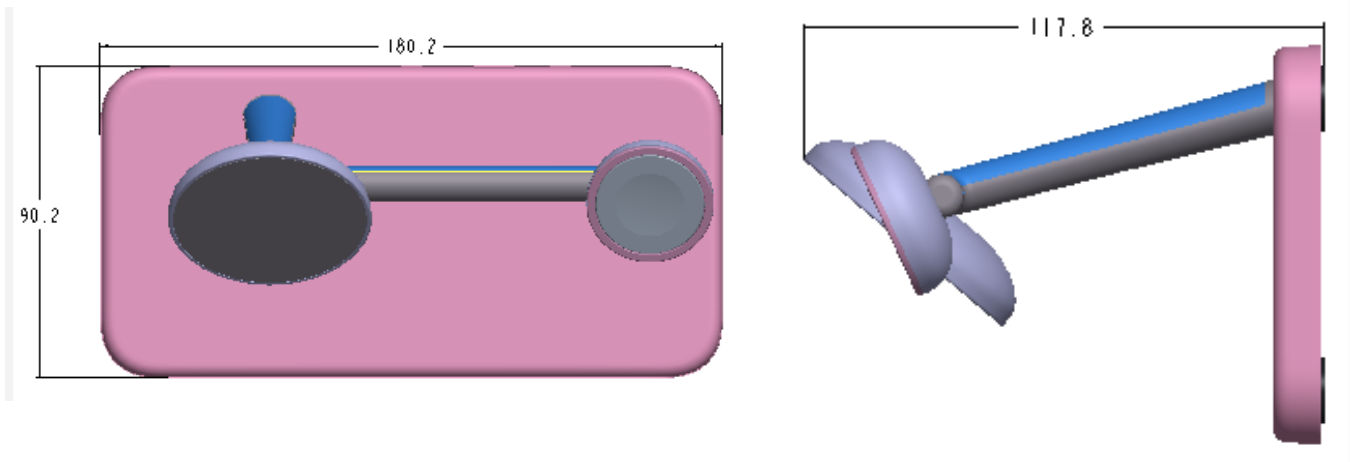
8.2 MPP TX module can adjust the maximum output power according to the capability of the PSU as below

MPP 模块会根据适配器不同输出能力调整输出功率，适配器输出规格对应 MPP 模块表格如下：

PSU Type	Output power
DC >=20W (9V/2.22A)	BPP5W/AFC7.5W/MPP15W
DC >=12W (5V/2.4A)	BPP5W/AFC7.5W/MPP7.5W
QC 18W (9V/2A)	BPP5W/AFC7.5W/MPP10W
QC 15W (9V/1.67A)	BPP5W/AFC7.5W/MPP10W
PD >=20W (9V/2.22A)	BPP5W/AFC7.5W/MPP15W
PD 18W (9V/2A)	BPP5W/AFC7.5W/MPP12W
PD 15W (5V/3A)	BPP5W/AFC7.5W/MPP7.5W
BC1.2 12W	BPP5W/AFC7.5W/MPP7.5W

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9. Size尺寸(单位: mm±1.0)



10. Weight 重量

220±5g

11. Statement / 声明

All rights reserved by LinkCom Manufacturing Co., Ltd. for all of this specification for approval.
About warranty, please refer to LinkCom company warranty policy.
