

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

MODEL NO: U15QT-7268A/7268B

PART NO : ILPU15QT-7268C1-XB-1

MODEL NAME: 15W stand magnetic wireless charging board

REVISION: A0

DATE: 2023-12-21

APPROVED SIGNATURES

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Model No.	U15QT-7268A/7268B	Model Name	15W stand magnetic wireless charging board
Part No.	ILPU15QT-7268C1-XB-1	Size	L90 ※ W85 ※ T150.3mm

Product Specification

產品規格書

Product name/產品名稱: 15W stand magnetic wireless charging board

Model No/ 產品型號 : U15QT-7268A/7268B

File number /文件編號: _____

Revision/版本號 : A0

Date/日期 : 2023-12-21



APPROVED BY 批 准	CHECKED BY 審 核	DESIGNED BY 制 作

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Catalogue/目錄

1. Scope/概述	4
2. Product Characteristic / 產品特點	5
3. Performance Parameter / 性能參數	5
4. Safety Control/安全機制	5
4.1. Short Circuit Protection/短路保護	5
4.2. Over Current Protection/過流保護	6
4.3. Overvoltage Protection/过压保护	6
4.4. Foreign Object Detect (FOD)	6
4.5. Over-temperature Protection/過溫保護	6
5. Reliability Requirements / 可靠性要求	7
6. Environment Requirement / 環境要求	7
7. Execution Standards/執行標準	7
8. Photo of Product/產品照片	8
9. Attentions 使用注意事項	8
10. Weight / 重量	8
11. Statement / 聲明	8



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Reversion History / 更新記錄:

Revision	Date	Changes
A0	2023-12-21	初版發行

1. Scope/概述

Model No.	U15QT-7268A/7268B	Model Name	15W stand magnetic wireless charging board
Part No.	ILPU15QT-7268C1-XB-1	Size	L90 ※ W85 ※ T150.3mm

U15QT-7268A/7268B is an aluminum alloy with a stand magnetic function wireless charging board, when the RX end also supports the magnetic function can be placed at will so that TX&RX coil seamless docking and maintain communication, and in the whole charging process will not occur TX&RX offset phenomenon; This product is only compatible with the iPhone series and mobile phones with magnetic function & Apple headphones, and supports PD adapter input

U15QT-7268A/7268B 产品是一款铝合金带支架的磁吸功能无线充电板，当RX端也支持磁吸功能时可以随意放置即可让TX&RX线圈进行无缝对接并保持通讯，而且在整个充电过程不会发生TX&RX偏移现象，；该产品仅兼容iPhone系列及带磁吸功能的手机&苹果耳机，并且支持PD适配器输入

2. Product Characteristic / 產品特點

- ◆ QC3.0/PD3.0 power communication protocol
QC3.0 /PD3.0 電源通信協議；
- ◆ Meets Qi 1.2.4 certification requirements and is compatible with Samsung® and iPhone® mobile fast charging .
符合 Qi 1.2.4 認證要求並相容 三星® 和 iPhone® 手機快速充電；

3. Performance Parameter / 性能參數

3.0	Power input protocol / 電源輸入協定	QC3.0/ PD3.0
3.1	Input voltage & current / 輸入電壓電流	DC12V/2.5A 、PD12V/2.5A 、QC12V/2.5A
3.2	Working voltage¤t / 工作電壓電流	DC12V/1.85A 、PD12V/1.85A 、QC12V/1.85A
3.3	Wireless charging output power 無線充電輸出功率	5W/7.5W/10W/15W
3.4	USBA Output voltage/current /USBA 輸出電壓/電流	5V/1.5A
3.5	Power Transfer Efficiency / 轉換效率	70% ±5%
3.6	5W/10W/15W Frequency / 5W/10/15W 頻率	frequency conversion 110KHz-205KHz / 變頻 110KHz-205KHz
3.7	Apple 7.5W frequency/蘋果 7.5W 頻率	Constant frequency 127.7KHz / 定頻 127.7KHz
3.8	Ripple noise / 紋波及噪音	≤ 5%
3.9	Operating temperature / 工作溫度	5-25℃
4.0	Relative humidity / 相對濕度	40%~60%

4. Safety Control/安全機制

4.1. Short Circuit Protection/短路保護

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In the case of short-circuit at the receiver output, the transmitter stop output. When removed the receiver or short circuit, the transmitter will resume normal operation.

在接收端輸出短路的情況下，發射端停止輸出。當移除接收或者短路解除時，發射端將恢復正常工作。

4.2. Over Current Protection/過流保護

When the receiver load exceeds the rated value(110% - 130%), the overcurrent protection is triggered and the transmitter stops working. When removed the receiver, the transmitter will resume normal operation.

當接收器負載 > 額定值的 110% - 130% 時，觸發過電流保護，發射端停止工作，當接收器被移除時，發射端將恢復正常工作。

4.3. Overvoltage Protection/过压保护

The product would stop working when the input voltage exceeds the rated value (13V). The Product would be restarted working when the voltage returns to the set value range.

P/S: The input voltage shall not exceed 13.5V in case damage the product.

輸入端超過設定過壓電壓值 13V 時，發射端停止工作。電壓恢復設定值範圍時重新啟動工作。

注意：輸入電壓不可以超過 13.5V，以防損壞本產品。

4.4. Foreign Object Detect (FOD) (1 RMB coin as the standard.)

異物檢測（以一元 RMB 硬幣為標準。）

4.4.1 When placing the coin onto the center of the product under no-load condition, the transmitter detected foreign object and reports an error, then stops working. Removes the foreign object to resume normal operation.

空載時放置產品中心，發射端檢測到異物並報錯，停止工作，移除異物可恢復正常工作。

4.4.2 When placing the load and coin together onto the center of the product, an error is reported within 10s (time varies with different mobile phone models) and the output is closed.

Removes the foreign object to resume normal operation.

負載和硬幣一起放置產品中心時，10 秒（不同手機型號時間不同）之內報錯並關閉輸出，移除異物可恢復正常工作。

4.5. Over-temperature Protection/過溫保護

4.5.1. Wireless charging over-temperature protection/無線充電過溫保護

The NTC temperature protection of the PCBA is $65 \pm 5^{\circ}\text{C}$ (5W/7.5W/10W) $80^{\circ}\text{C} \pm 5^{\circ}\text{C}$

(15W) The transmitter stops working when the temperature exceeds the value. Resets the

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receiver or cools to 55-60°C, the transmitter returns to normal operation (optional replacement with external NTC)

PCBA 貼片 NTC 溫度保護設定值為 65± 5°C (5W/7.5W/10W) 80°C± 5°C (15W), 當溫度超過設定值, 發射端停止工作, 重新放置接收或者降溫至 55-60°C 時, 發射器恢復正常工作。(可選擇更換成外接 NTC)

5. Reliability Requirements / 可靠性要求

5.1. Reliability Test/可靠性測試

Please refer to Link Com's reliability standard and reliability test Report.

請參考聯寶標準《可靠性測試規範》與《可靠性測試報告》

6. Environment Requirement / 環境要求

6.1 Operating Temperature and Relative Humidity/操作溫度和相對濕度 5°C-25°C / RH40~60%

6.2 Storage Temperature and Relative Humidity/儲存溫度和相對濕度 0°C-35°C / RH20~80%

6.2.1 Avoid direct exposure to the storage environment, and do a good temperature and humidity control, room temperature should be controlled at 5°C-25°C, relative humidity RH40~ 60%. In order to maintain good functionality of the product, please observe the following storage conditions. 儲存環境應避免產品受陽光直接照射, 並作好溫濕度管控, 室溫宜控制在 5°C-25°C / RH40~60%。為使產品維持良好之功能性, 請確實遵守以下保存條件

6.2.2 Keep away from high humidity, salt spray or oil spray. 儲存需避開高濕, 鹽霧或油霧之環境

When storing, the storage environment temperature should be avoided too drastic, and the humidity should be avoided too high or too low. High humidity and large temperature difference tend to cause water Vapor condensation phenomenon, too low humidity easily cause the high electrostatic strength. Therefore, humidity will cause the electron ionization, and eventually cause the product functional abnormalities. 儲存時應避免儲存環境溫度變化過於激烈, 同時避免濕度過高或過低。濕度過高和溫差過大容易導致水 蒸氣凝結現象, 濕度過低容易導致靜電強度過高。故濕度會造成電子遊離, 最終導致產品功能性異常。

7. Execution Standards/執行標準

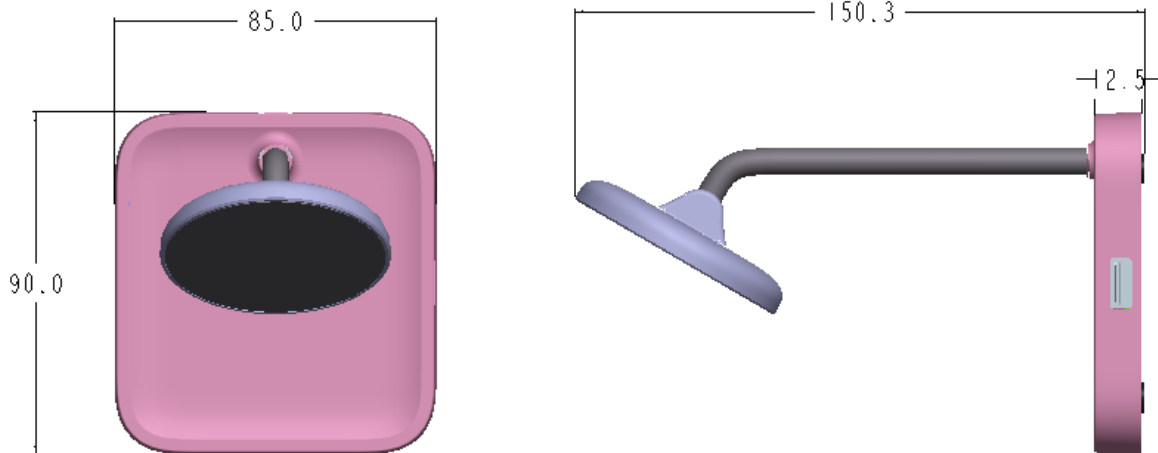
7.1. EMC Standards 電磁相容標準

EN55032	EN55035
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8. Photo of Product/產品照片

Size :L90 ※ W85 ※ T150.3mm



9. Attentions 使用注意事項

- ◆ Please use the correct rated AC Adapter, to ensure the normal function.
請使用配置的正确規格火牛，保證功能正常；

10. Weight / 重量

124^{±5}g

11. Statement / 聲明

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