

SPECIFICATION FOR APPROVAL

CUSTOMER: 公司中性品

MODEL NO. : QI2QT-6131A1/QI2QT-6131B1/QI2QT-6131C1

PART NO. : ILMQI2QT-6131A1C1-XW-1/
ILMQI2QT-6131B1C1-XX-1/QI2QT-6131C1C1-XX-1

MODEL NAME: 15W MPP wireless charger module

REVISION: A2

DATE: 2025-05-12

APPROVED SIGNATURES		

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Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
Part No.	ILMQI2QT-6131A1C1-XW-1/ ILMQI2QT-6131B1C1-XX-1/QI2QT-6131C1C1-XX-1	Size	$058.55^{+0.25} \times 7.7^{+0.25} /$ $056.3^{+0.25} \times 7^{+0.25} / 054.24^{+0.25} \times 5.3^{+0.25} \text{mm}$

Product Specification

產品規格書

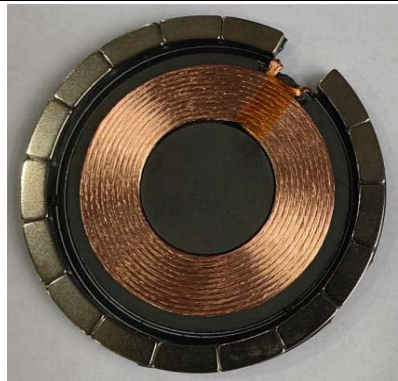
Product name/產品名稱: 15W MPP wireless charger module

Model No/ 產品型號: QI2QT-6131A1/QI2QT-6131B1/QI2QT-6131C1

File number /文件編號:

Revision/版本號: A2

Date/日期: 2025-05-12

QI2QT-6131A1 PCBA+ Magnet + bottom case + cover	QI2QT-6131B1 PCBA+ Magnet + bottom case	QI2QT-6131C1 PCBA+ Magnet
		

APPROVED BY 批准	CHECKED BY 審核	DESIGNED BY 製作

Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
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Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
Part No.	ILMQI2QT-6131A1C1-XW-1/ ILMQI2QT-6131B1C1-XX-1/QI2QT-6131C1C1-XX-1	Size	$058.55^{\pm 0.25} \times 7.7^{\pm 0.25} /$ $056.3^{\pm 0.25} \times 7^{\pm 0.25} / 054.24^{\pm 0.25} \times 5.3^{\pm 0.25} \text{mm}$

Reversion History/更新記錄

Revision	Date	Changes
A0	2024. 5. 22	New release
A1	2025. 2. 24	Add Audio noise 、Weight description
A2	2025. 5. 12	Add consumer application description 、check sum 、 packaging 、execution standards. Updates dimension.

Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
Part No.	ILMQI2QT-6131A1C1-XW-1/ ILMQI2QT-6131B1C1-XX-1/QI2QT-6131C1C1-XX-1	Size	$058.55^{+0.25}_{-0.25} \times 7.7^{+0.25}_{-0.25} /$ $056.3^{+0.25}_{-0.25} \times 7.7^{+0.25}_{-0.25} / 054.24^{+0.25}_{-0.25} \times 5.3^{+0.25}_{-0.25} \text{mm}$

1. Product Description/產品描述

QI2QT-6131A1、QI2QT-6131B1 and QI2QT-6131C1 comply with MPP protocol of 15W magnetic wireless module. The product input supports USB PD 9V/2.22A; 5V/3A and DC power supply 9V/2.22A. The output functions support APPLE iPhone up to 15W wireless charging. The MPP module also meets Qi2.0 certification standard.

This product is only suitable for general consumer product application installation and is not suitable for any automotive or aviation product application.

QI2QT-6131A1/B1/C1 是一款符合 MPP 協議 15W 帶有磁吸式無線充電模組，該產品輸入端支援 USB PD 9V/2.22A；5V/3A 以及 DC 電源輸入 9V/2.22A，無線充電輸出功能支援蘋果手機 15W，符合 Qi2.0 認證標準。

本產品僅適用於一般消費性產品應用安裝，不適用任何車規、航空產品應用。

2. Product Characteristic/產品特點

- ◆ Supports charging up to 15W
最高支持到 15W 接收充電
- ◆ Qi2.0 certification standard.
符合 Qi2.0 認證標準
- ◆ Comply with charging Qi BPP, EPP, MPP standard devices
符合 Qi BPP、EPP、MPP 標準設備充電
- ◆ Comply with QC2.0/3.0, PD2.0/3.0 adapter
相容 QC2.0/3.0、PD2.0/3.0 適配器

Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
Part No.	ILMQI2QT-6131A1C1-XW-1/ ILMQI2QT-6131B1C1-XX-1/QI2QT-6131C1C1-XX-1	Size	$058.55^{+0.25}_{-0.25} \times 7.7^{+0.25}_{-0.25} /$ $056.3^{+0.25}_{-0.25} \times 7.7^{+0.25}_{-0.25} / 054.24^{+0.25}_{-0.25} \times 5.3^{+0.25}_{-0.25} \text{mm}$

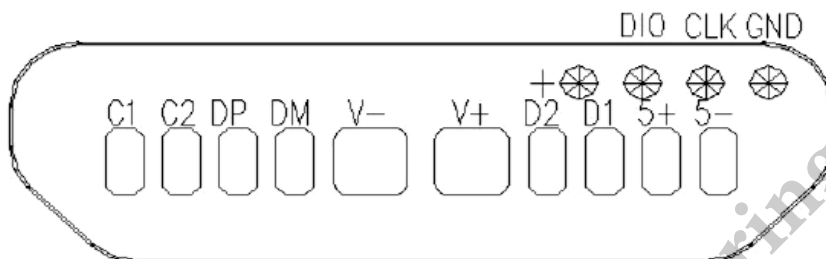
3. Performance Parameter/性能參數

Item	Parameter
Input Power/輸入功率	USB-C Mode: 9V 2.22A / 5V 3A DC Mode: 9V $\geq$ 2.22A / 5V $\geq$ 2.4A
Input Protocol/輸入協定	BC1.2/QC/PD protocol function
Output Power/輸出功率	15W Max
Standby power/待機功率	<500mW
Efficiency/效率	5W (79% max) 7.5W (83% max) 10W (81% max) 15W (81% max)
Output Protocol/輸出協定	MPP 15W/EPP 15W/BPP 5W/PPDE 10W/ 7.5W apple fast charge
Frequency/頻率	BPP:110~205KHz MPP:360KHz
Coil Type/線圈	MPP, 8uH $\pm$ 5% @360KHz
Protection/保護	OVP / UVP / OCP / OTP
FOD/異物檢測	Q test (pre-power transfer)/ Power Transfer FOD
Interface Power/介面電源	C1, C2, DP, DM, V+, V-
Other/其他	D1, D2, 5+, 5-, DIO, CLK
Audio noise/噪聲規格	The test distance is 15 cm < 30dB (noise spec)
Check sum/軟件版本	V43

Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
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4. Electrical Interface/電氣介面

4.1 Input Connection Method/電源輸入接法



介面圖片 / Interface picture

引脚名称	引脚含义	Type-C 5/6 线接法	Type-C 3/4 线接法	Type-C QC 接法	DC-9V 供电接法	Type-C 全 Pin 接法
C1	PD 协议 CC1	USB CC (二选一或 全选)	USB CC (二选一或 全选)	NC	NC	USB CC1
C2	PD 协议 CC2			NC	NC	USB CC2
DP	QC 协议 D+	USB D+	NC	USB D+	NC	USB D+
DM	QC 协议 D-	USB D-	NC	USB D-	NC	USB D-
V-	电源输入 GND	USB GND	USB GND	USB GND	USB GND	USB GND
V+	电源输入 VPP	USB VBUS	USB VBUS	USB VBUS	USB VBUS	USB VBUS
D2	内部信号	NC	NC	NC	NC	NC
D1	指示灯控制信号	NC	NC	NC	NC	NC
5+	5V 输出 100mA	NC	NC	NC	NC	NC
5-	5V 输出 GND	NC	NC	NC	NC	NC
DIO	烧录数据脚	NC	NC	NC	NC	USB SUB1
CLK	烧录时钟脚	NC	NC	NC	NC	USB SUB2

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元件面圖

4.2 LED light function/LED 功能說明

User can connect a LED anode to the D1 pad. There is a $1.1\text{K}\Omega$ resistor connect LED1 pad in TX module, and the high Voltage of this pad is 3.3V, and the low Voltage of this pad is 0V. The LED indicate as below

PIN	D1
Start-up	off
Stand by	off
Charging	on
Error	Blink~1Hz

5. OVP and UVP protection condition/過電壓及欠電壓保護條件

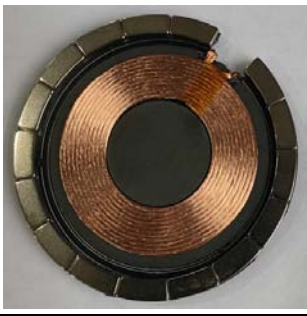
Input OVP Threshold	Input 9V	Trigger: $10\text{V} \pm 0.2\text{V}$
	Input 5V	Trigger: $6\text{V} \pm 0.2\text{V}$
Input UVP Threshold	Input 9V	Trigger: $8\text{V} \pm 0.2\text{V}$
	Input 5V	Trigger: $4\text{V} \pm 0.2\text{V}$

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6. OTP protection condition/過溫度保護條件

NTC OTP protection	Trigger: 75°C ± 3°C
	Recover : 45°C ± 3°C

7. Module Product Center/模組產品內部描述

Item	QI2QT-6131A1 PCBA+ Magnet + bottom case + cover	QI2QT-6131B1 PCBA+ Magnet + bottom case	QI2QT-6131C1 PCBA+ Magnet
Picture			
Top cover Color	Black/White	NA	NA
OD	58.6mm	56.3mm	54.24mm
Thickness of module	7.7mm	7.0mm	5.3mm
Magnet Mode	N52M	N52M	N52M
Magnet Qty.	16PCS	16PCS	16PCS
Thickness of magnet	1.5mm	1.5mm	1.5mm
Thickness of DC shield	0.7mm	0.7mm	NA
Surface magnetism	4100 ± 200Gs	4100 ± 200Gs	4100 ± 200Gs
Magnet Dimension	Ø54.1mmXØ46.0mm (Width : 4.05mm)	Ø54.1mmXØ46.0mm (Width : 4.05mm)	Ø54.1mmXØ46.0mm (Width : 4.05mm)
Nominal force value	400gf	400gf	400gf

Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
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8. Environmental characteristic/環境特性

8.1 Operating Temperature and Humidity/工作溫度和濕度

Item	Requirements			
	MIN	TYP.	MAX	Units
Operating Temperature	-10	-	+40	°C
Operating Humidity	10	-	90	%RH

8.2 Store Temperature and Humidity/儲存溫度和濕度

Item	Requirements			
	MIN	TYP.	MAX	Units
Storage Temperature	-20	-	+70	°C
Storage Humidity	5	-	95	%RH

9. Appearance Requirements/結構與外觀要求

Please refer to LinkCom' s appearance inspection specification.

請參考聯寶電子外觀檢驗規範

Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
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10. Execution Standards/執行標準

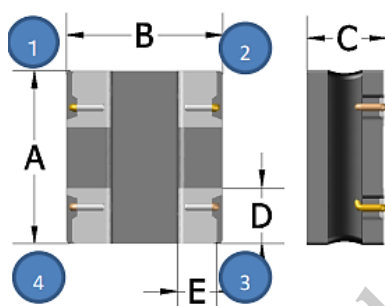
10.1 EMI Standards/電磁相容標準

N/A

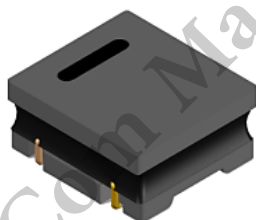
10.2 In order to pass the EMI test, it is recommended to add a common-mode inductor to the power source before connecting it to the module PCBA. The recommended specifications of common mode inductors are as follows, which can be adjusted according to actual conditions:

為了通過EMI測試，電源來源建議外加共模電感再連接至模組PCBA上。共模電感建議規格如下，可依實際狀況做調整：

PACKING DIMENSIONS (mm)



Marking



5045	Dimensions
A	5.0 ± 0.3
B	4.5 ± 0.3
C	2.5 Max.
D	1.6 ± 0.3
E	1.4 ± 0.3

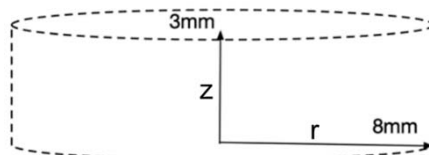
■ Electrical Characteristics

P/N	Z(Ω) Common Mode	DCR (Ω)	IDC (A)	Rated Voltage	Insulation Resistance	Withstand Voltage
	Impedance at 100MHz	$\pm 40\%$	Max.	Vdc (V)Typ.	IR (MΩ) Min.	Vdc (V)Typ.
PCN5045A-102	1000 Typ.	0.024	3.0	50	10	125

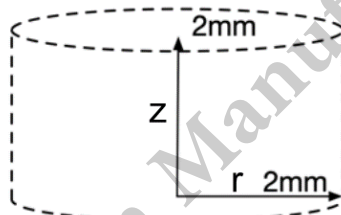
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11. Attentions- Power Delivery/注意事項-功率分配

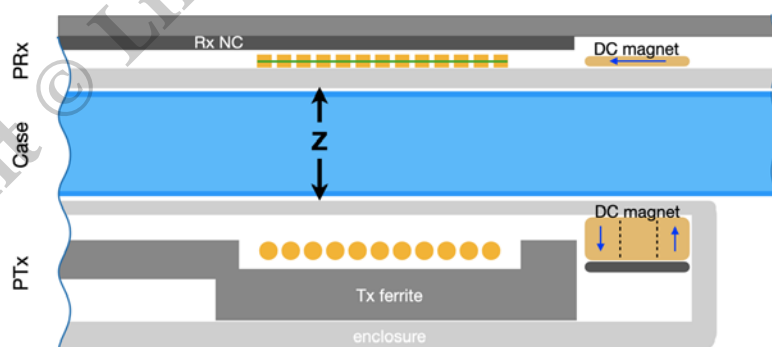
11.1 The PTx shall provide a BPP PRx with at least 5W of rectified power for $0\text{mm} \leq z \leq 3\text{mm}$, $0\text{mm} \leq r \leq 8\text{mm}$, see below figure.



11.2 The PTx shall provide a MPP PRx with at least 15W of rectified power inside the 2x2 cylinder ($0\text{mm} \leq z \leq 2\text{mm}$, $0\text{mm} \leq r \leq 2\text{mm}$), see below figure.



11.3 The PTx shall provide a MPP PRx with at least 5W of rectified power for $0 \leq z \leq 3\text{mm}$, $0\text{mm} \leq r \leq 4\text{mm}$

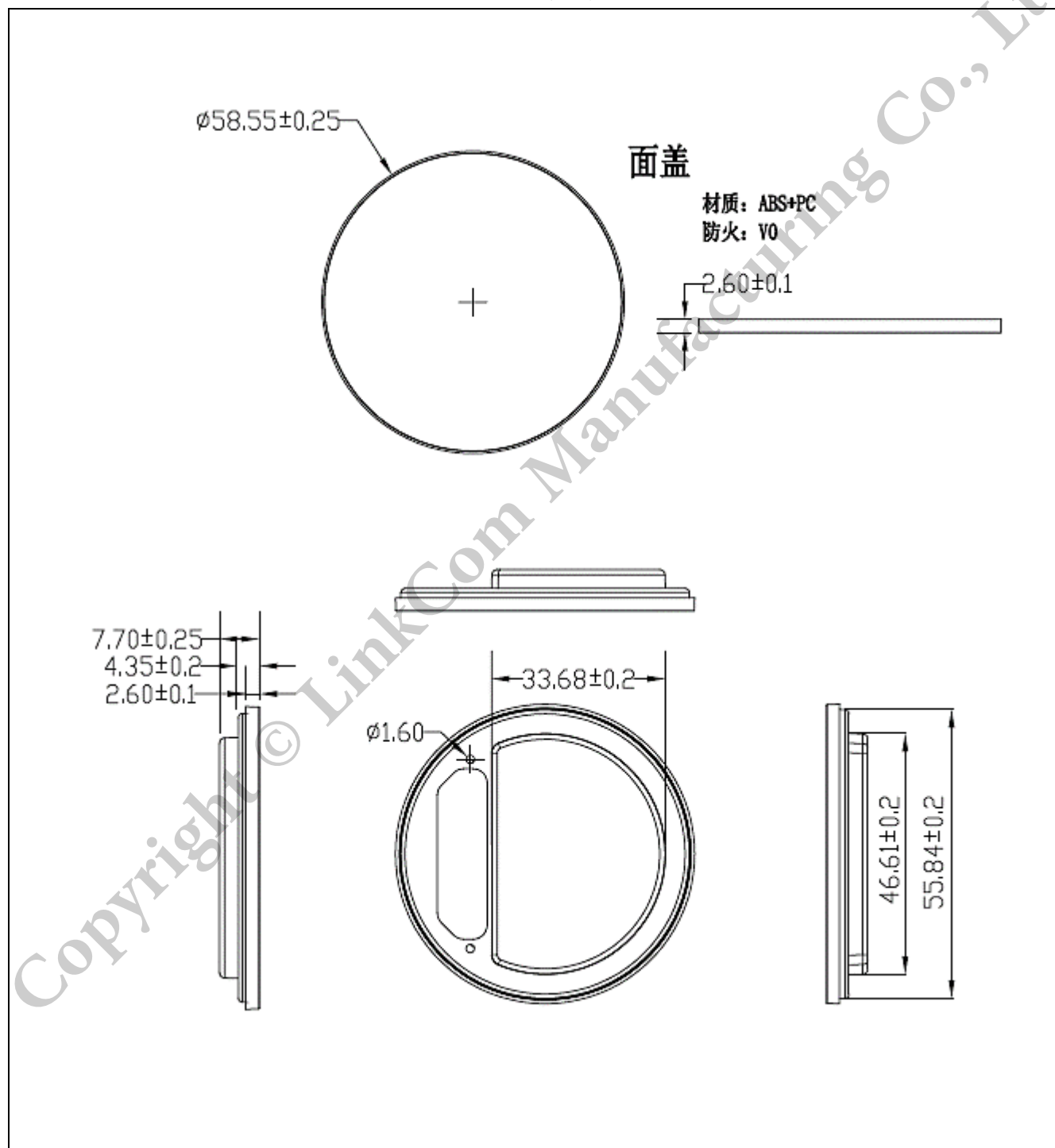


z: distance from transmitter surface to receiver surface
Coil-to-coil distance is larger than z.

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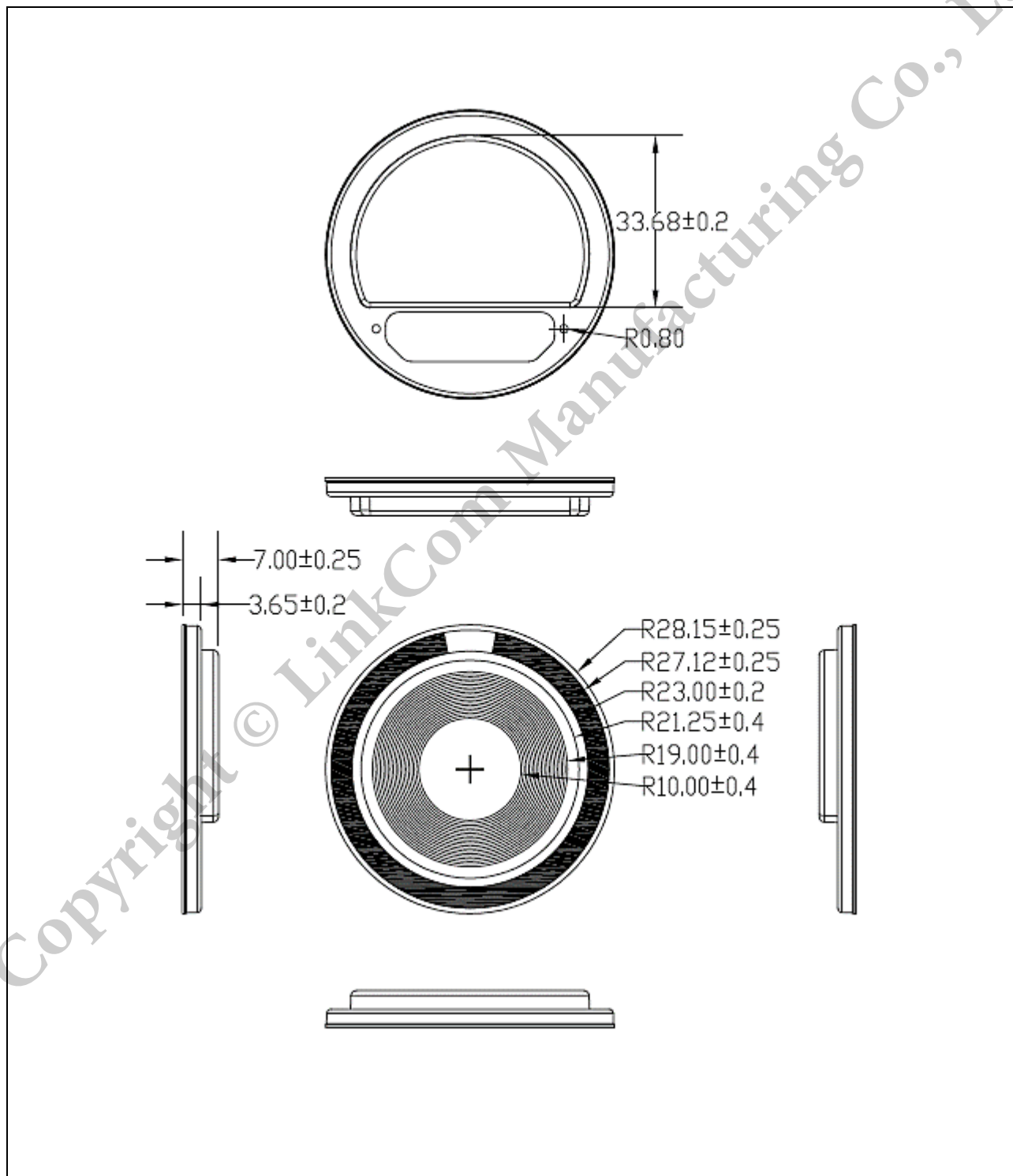
12. Module dimension/模組尺寸

12.1 QI2QT-6131A1 dimension/QI2QT-6131A1 尺寸



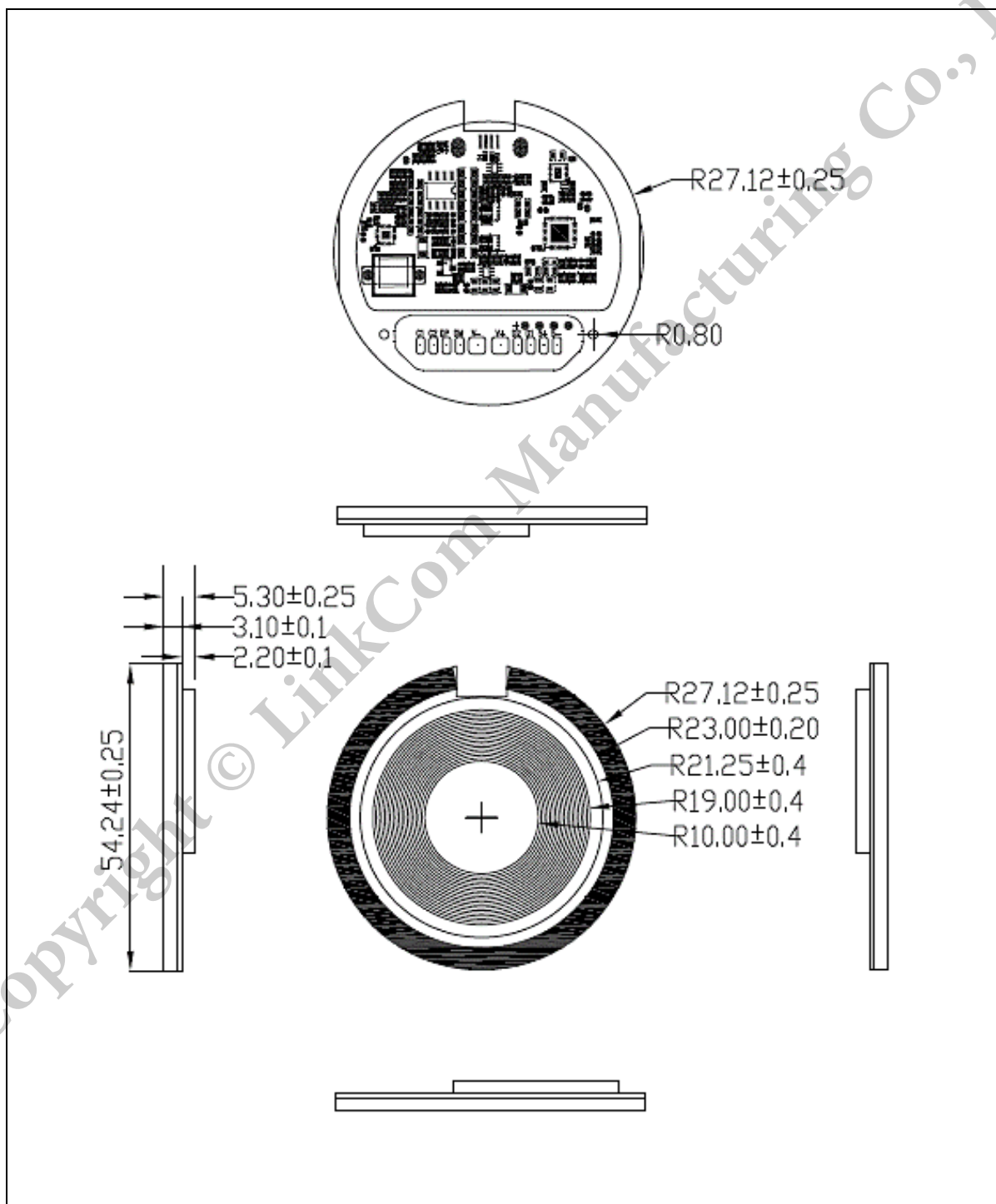
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12.2 QI2QT-6131B1 dimension/QI2QT-6131B1 尺寸



Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
Part No.	ILMQI2QT-6131A1C1-XW-1/ ILMQI2QT-6131B1C1-XX-1/QI2QT-6131C1C1-XX-1	Size	$058.55^{+0.25}_{-0.25} * 7.7^{+0.25}_{-0.25} /$ $056.3^{+0.25}_{-0.25} * 7^{+0.25}_{-0.25} / 054.24^{+0.25}_{-0.25} * 5.3^{+0.25}_{-0.25} \text{mm}$

12.3 QI2QT-6131C1 dimension/QI2QT-6131C1 尺寸



Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
Part No.	ILMQI2QT-6131A1C1-XW-1/ ILMQI2QT-6131B1C1-XX-1/QI2QT-6131C1C1-XX-1	Size	$058.55^{\pm 0.25} * 7.7^{\pm 0.25} /$ $056.3^{\pm 0.25} * 7^{\pm 0.25} / 054.24^{\pm 0.25} * 5.3^{\pm 0.25} \text{mm}$

13. Weight/重量

QI2QT-6131A1 : $35.5 \pm 2\text{g}$; 1 Carton/1 箱: 150pcs; Net Weight/淨重: about 5.4kg; Gross Weight/毛重: about 7.3kg

QI2QT-6131B1 : $32 \pm 2\text{g}$; 1 Carton/1 箱: 150pcs; Net Weight/淨重: about 4.8kg; Gross Weight/毛重: about 6.7kg

QI2QT-6131C1 : $25.5 \pm 2\text{g}$; 1 Carton/1 箱: 150pcs; Net Weight/淨重: about 3.8kg; Gross Weight/毛重: about 5.7kg

Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
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14. Packaging/包裝

● QI2QT-6131A1 / QI2QT-6131B1

■ Carton Packing Method

2025.04.25

Outer Carton : 150 pcs size : W 350 x D 300 x H 240mm

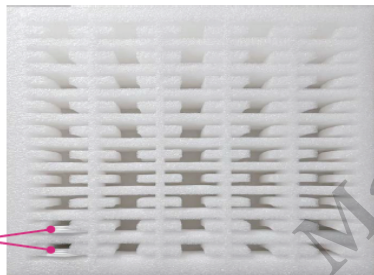
(boxes) NW : kg GW : kg

Inner Carton : pcs size : W x D x H mm

(boxes) NW : kg GW : kg

天地盖: 340x280mm(2PCS/内箱)

PRODUCT



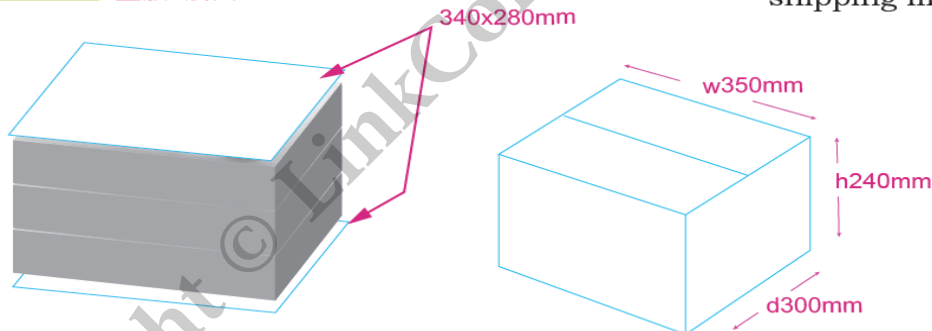
weight:

珍珠棉托盘
Size: 340x280x70mm
模組插入托盘双面对应的槽位 (如左图示)
整个托盘共计50PCS

模組

OUTER

叠放3层共150PCS



shipping mark: 4 faces

line:

pcs: 150

INNER

shipping mark: faces

line:

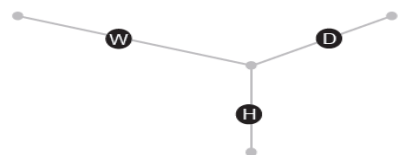
pcs:

■ Inner Material:

■ Outer Material: A=A

■ Designer: Bruce

■ Coordinate:



Please make sure to get our approval of following issues before you start mass production of the cartons:

- printing of the shipping mark (ink color, printing date etc.)
- weight and size of the carton
- fitting between product & Inner carton, Inner carton & outer carton

Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
Part No.	ILMQI2QT-6131A1C1-XW-1/ ILMQI2QT-6131B1C1-XX-1/QI2QT-6131C1C1-XX-1	Size	$\varnothing 58.55^{+0.25}_{-0} \times 7.7^{+0.25}_{-0} /$ $\varnothing 56.3^{+0.25}_{-0} \times 7^{+0.25}_{-0} / \varnothing 54.24^{+0.25}_{-0} \times 5.3^{+0.25}_{-0} \text{mm}$

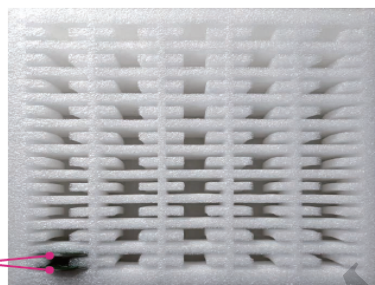
● QI2QT-6131C1

■ Carton Packing Method

2025.04.25

Outer Carton : 300 pcs size : W 350 x D 300 x H 240mm
(boxes) NW : kg GW : 8.3 kg
Inner Carton : pcs size : W x D x H mm
(boxes) NW : kg GW : kg
天地盖: 340x280mm(2PCS/内箱)

PRODUCT



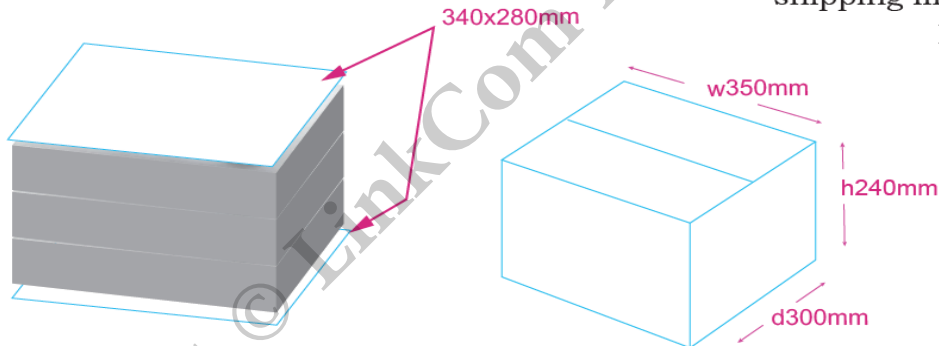
weight:

珍珠棉托盘
Size: 340x280x70mm
模组插入托盘双面对应的槽位 (如左图示)
整个托盘共计100PCS

模组

OUTER

叠放3层共300PCS

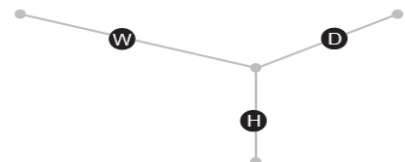


shipping mark: 4 faces
line:
pcs: 300

INNER

shipping mark: 4 faces
line:
pcs:

■ Inner Material:
■ Outer Material: A=A
■ Designer: Bruce
■ Coordinate:



Please make sure to get our approval of following issues before you start mass production of the cartons:

- printing of the shipping mark (ink color, printing date etc.)
- weight and size of the carton
- fitting between product & Inner carton, Inner carton & outer carton

Model No.	QI2QT-6131A1/ QI2QT-6131B1/QI2QT-6131C1	Model Name	15W MPP wireless charger module
Part No.	ILMQI2QT-6131A1C1-XW-1/ ILMQI2QT-6131B1C1-XX-1/QI2QT-6131C1C1-XX-1	Size	$058.55^{\pm 0.25} * 7.7^{\pm 0.25} /$ $056.3^{\pm 0.25} * 7^{\pm 0.25} / 054.24^{\pm 0.25} * 5.3^{\pm 0.25} \text{mm}$

15. Statement/聲明

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