

# SPECIFICATION FOR APPROVAL

CUSTOMER: 公司中性品

MODEL NO. : QI2QT-6135C1

PART NO. : ILMQI2QT-6135C1C1-XX-1

MODEL NAME: 15W MPP wireless charger module

REVISION: A2

DATE: 2025-05-12

## APPROVED SIGNATURES

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|           |                        |            |                                 |
|-----------|------------------------|------------|---------------------------------|
| Model No. | QI2QT-6135C1           | Model Name | 15W MPP wireless charger module |
| Part No.  | ILMQI2QT-6135C1C1-XX-1 | Size       | Ø54.0 <sup>±0.3</sup> *5.4 mm   |

# Product Specification

## 產品規格書

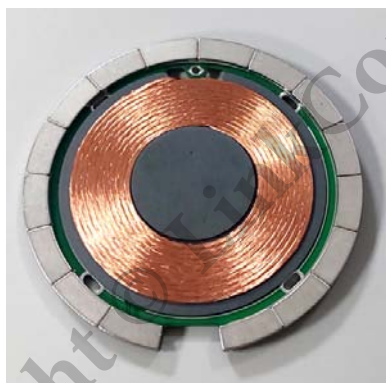
Product name/產品名稱: 15W MPP wireless charger module

Model No/ 產品型號: QI2QT-6135C1

File number /文件編號:

Revision/版本號: A2

Date/日期: 2025-05-12



|                   |                  |                   |
|-------------------|------------------|-------------------|
| APPROVED BY<br>批准 | CHECKED BY<br>審核 | DESIGNED BY<br>製作 |
|                   |                  |                   |

|           |                        |            |                                 |
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## Reversion History

| Revision | Date       | Changes                                                                                                                 |
|----------|------------|-------------------------------------------------------------------------------------------------------------------------|
| A0       | 2024.09.23 | New release                                                                                                             |
| A1       | 2025.02.19 | Add audio noise、magnetic force                                                                                          |
| A2       | 2025.05.12 | Add consumer application description、check sum、<br>execution standards、packaging.<br>Updates output protocol、dimension. |
|          |            |                                                                                                                         |
|          |            |                                                                                                                         |
|          |            |                                                                                                                         |
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## 1. Product description/產品描述

QI2QT-6135C1 comply with MPP protocol of 15W wireless module. The product input supports USB PD 9V/2.22A; 5V/3A and DC power supply 9V/2.22A. The wireless charging output function supports Apple phones, Samsung phones, and other Qi-certified Android phones. The wireless charging module also meets Qi2.0 certification standard.

QI2QT-6135C1 MPP TX module with 7-9N magnetic force.

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

QI2QT-6135C1符合MPP協定的15W無線模組，產品輸入支援USB PD 9V/2.22A；5V/3A及DC電源9V/2.22A，無線充電輸出功能支援蘋果手機、三星手機、以及其他Qi認證的安卓手機，無線充電模組也符合Qi2.0認證標準。

QI2QT-6135C1 MPP TX模組具有7-9N 磁力。

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

- ◆ Comply with original Apple module C222 standard.  
符合原廠蘋果模組 C222 標準尺寸
- ◆ Qi2.0 certification standard.  
符合 Qi2.0 認證標準

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### 3. Performance parameters/性能參數

| Item                          | Parameter                                                                 |
|-------------------------------|---------------------------------------------------------------------------|
| Input Power/輸入功率              | USB-C Mode: 9V-2.22A / 5V-3A<br>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            | <350mW                                                                    |
| Efficiency/效率                 | 80%                                                                       |
| Output Protocol/輸出協定          | MPP 15W/BPP 5W/7.5W for apple charge /PPDE 10W                            |
| Frequency/頻率                  | BPP:128Khz<br>MPP:360Khz                                                  |
| Coil Type/線圈                  | 8.1uH@360KHz                                                              |
| Protection/保護                 | OVP / UVP / OCP / OTP                                                     |
| Input OVP Threshold/輸入過電壓保護閾值 | Input 9V : Trigger:10V ; Recover:9.5V                                     |
|                               | Input 5V : Trigger:5.6V ; Recover:5.4V                                    |
| Input UVP Threshold/輸入欠電壓保護閾值 | Input 9V : Trigger:7.5V ; Recover:8.5V                                    |
|                               | Input 5V : Trigger:4.2V ; Recover:4.5V                                    |
| OTP/過溫度保護                     | Trigger:72°C/recover:55°C                                                 |
| FOD/異物檢測                      | Q test (pre-power transfer)/Power Transfer FOD                            |
| Interface Power/介面電源          | V+, V-, D+, D-, CC1                                                       |
| Other/其他                      | SDA, SCL, LED1, LED2/CC2                                                  |
| Audio noise/噪聲規格              | The test distance is 15 cm < 30dB (noise spec)                            |
| Checksum/軟件版本                 | V1.1                                                                      |

|           |                        |            |                                 |
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#### 4. Input power supply and wireless charger output power comparison

table/輸入電源與無線充輸出對照表

| PSU Type           | Output wireless charger 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/AFC3.5W/MPP3.5W         |

#### 5. Output Interface /輸出介面

|           |                                                                                                                                       |  |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Interface | <p><b>Power pins:</b><br/>V+, V-, D+, D-, CC1, CC2</p> <p><b>Debug pins:</b><br/>G, SDA, SCL, TX</p> <p><b>LED pins:</b><br/>LED1</p> |  |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------|--|

##### 5.1. Pads definitions/焊盤定義

| Pin  | USB-C cable mode | USB-C Receptacle mode | DC 9V mode |
|------|------------------|-----------------------|------------|
| LED1 | NC               | NC                    | NC         |
| CC2  | NC               | USB CC2               | NC         |
| V+   | VBUS             | VBUS                  | VBUS       |
| D-   | USB D-           | USB D-                | NC         |
| D+   | USB D+           | USB D+                | NC         |
| CC1  | USB CC1          | USB CC1               | NC         |
| V-   | GND              | GND                   | GND        |
| SDA  | NC               | NC                    | NC         |
| SCL  | NC               | NC                    | NC         |

Note: V+ and V- pads support up to 20AWG wires, the other pads support up to 26AWG wires.

|           |                        |            |                                 |
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## 5.2. LED light function/ LED 燈功能

User can connect a LED anode to the LED 1 pad There is a 1K  $\Omega$  resistor connect LED1 pad in TX module, and the high Voltage of this pad is 5V, and the low Voltage of this pad is 0V. The LED indicate as below

| States              | Operation   |
|---------------------|-------------|
| Start-up (Power on) | on then off |
| Standby             | off         |
| Charging            | on          |
| Fully charged       | on          |
| Error               | Blink-1Hz   |

## 6. Environmental characteristic/環境特性

### 6.1. 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   |

### 6.2. Storage 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   |



|           |                        |            |                                 |
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## 7. Temperature and output power/溫度與輸出功率

There is a NTC resistor inside the module to provide OTP for the module. The module can adjust output power according to the different temperature. It starts to decrease output power when the temperature exceeds 55°C, the output power decreases 1W for every 1°C increases. The module stops running when the temperature exceeds 72°C. It resumes operate when the temperature drops below 55°C.

| PCB | NTC Temperature (°C) | RX Prect (W) |
|-----|----------------------|--------------|
|     | ≤55                  | 15           |
|     | 56                   | 14           |
|     | 57                   | 13           |
|     | 58                   | 12           |
|     | 59                   | 11           |
|     | 60                   | 10           |
|     | 61                   | 9            |
|     | 62                   | 8            |
|     | 63                   | 7            |
|     | 64                   | 6            |
|     | 65                   | 5            |
|     | 66                   | 4            |
|     | 67                   | 3            |
|     | 68                   | 2            |
|     | 69                   | 1or Cloak    |
|     | 70                   |              |
|     | 71                   |              |
|     | 72                   | TX stop      |

|           |                        |            |                                 |
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## 8. Execution Standards/執行標準

### 8.1. EMI Standards/電磁相容標準

EN55032

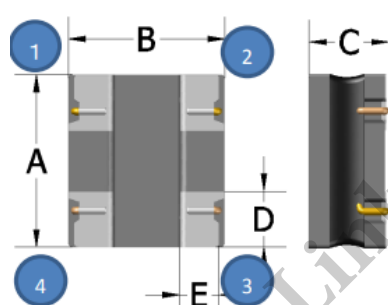
Note: The EMI test should include the actual testing of the enclosure and RX equipment.

備註: EMI 測試需包含外殼與 RX 設備實際測試。

8.2. 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)<br>Common Mode    | DCR (Ω) | IDC (A) | Rated<br>Voltage | Insulation<br>Resistance | Withstand<br>Voltage |
|--------------|------------------------|---------|---------|------------------|--------------------------|----------------------|
|              | Impedance<br>at 100MHz | ±40%    | Max.    | Vdc<br>(V)Typ.   | IR<br>(MΩ) Min.          | Vdc<br>(V)Typ.       |
| PCN5045A-102 | 1000 Typ.              | 0.024   | 3.0     | 50               | 10                       | 125                  |

|           |                        |            |                                 |
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## 9. I2C interface/I2C 介面

User can get the Module status or send Power supply capacity of the adapter to the module through I2C.  
The Module is configured to be a slave, and the maximum communication frequency is up to 400KHz.  
The pull-up voltage can use 3.3V or 5V.

### SCL, SDA

|                  |                                 |     |     |     |
|------------------|---------------------------------|-----|-----|-----|
| V <sub>IH</sub>  | GPIO Logic input high threshold | 1.3 |     | V   |
| V <sub>IL</sub>  | GPIO Logic input low threshold  |     | 0.6 | V   |
| I <sub>LKG</sub> | Leakage Current                 | -1  | 1   | uA  |
| F <sub>SCL</sub> | Clock Frequency                 | 100 | 400 | kHz |

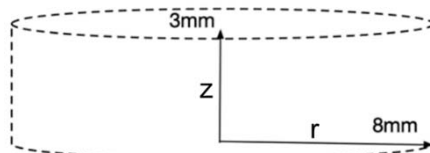
I2C information as below/I2C 資訊如下

| Slave Device Addr: 0x71(7bit) |                           |     |                               |          |     |     |          |    |          |        |                     |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                        |
|-------------------------------|---------------------------|-----|-------------------------------|----------|-----|-----|----------|----|----------|--------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Read Addr: 0xE3               |                           |     |                               |          |     |     |          |    |          |        |                     |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                        |
| Write Addr: 0xE2              |                           |     |                               |          |     |     |          |    |          |        |                     |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                        |
| Info Addr (HEX)               | Info Name                 | R/W | D7                            | D6       | D5  | D4  | D3       | D2 | D1       | D0     | Default Value (HEX) | Descriptions                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                        |
| 00                            | TX_FW_VERSION             | R   | FW_VERSION                    |          |     |     |          |    |          |        | XX                  | Firmware version of TX, 0x14 means v1.4                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |
| 01                            | TX_CHIP_ID                | R   | CHIP_ID                       |          |     |     |          |    |          |        | XX                  | Hardware version of TX, 0x50 means v5.0                                                                                                                                                                                                                                                                                                          |                                                                                                                                        |
| 02                            | TX_STATUS                 | R   | TX_ERR                        | OTP      | OVP | FOD | RESERVED |    |          | STATUS | 00                  | STATUS=1, device present; *STATUS=0*, no device; TX_ERR=1, an error occurred at Tx side, such as FOD, OTP, ...; TX_ERR=0, no error;                                                                                                                                                                                                              |                                                                                                                                        |
| 03                            | RESERVED_0                | R   | RESERVED                      |          |     |     |          |    |          |        |                     |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                        |
| 04                            | TX_REQUIRED_VOLT_L        | R   | REQUIRED_VOLT[7:0]            |          |     |     |          |    |          |        |                     | 88                                                                                                                                                                                                                                                                                                                                               | unit: mV                                                                                                                               |
| 05                            | TX_REQUIRED_VOLT_H        | R   | REQUIRED_VOLT[15:8]           |          |     |     |          |    |          |        |                     | 13                                                                                                                                                                                                                                                                                                                                               | The master should set the voltage to 9V/5V directly.                                                                                   |
| 06                            | TX_WORKING_VOLT_L         | R   | WORKING_VOLT[7:0]             |          |     |     |          |    |          |        |                     | 88                                                                                                                                                                                                                                                                                                                                               | unit: mV                                                                                                                               |
| 07                            | TX_WORKING_VOLT_H         | R   | WORKING_VOLT[15:8]            |          |     |     |          |    |          |        |                     | 13                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                        |
| 08                            | TX_WORKING_CURRENT_L      | R   | WORKING_CURRENT[7:0]          |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               | unit: mA                                                                                                                               |
| 09                            | TX_WORKING_CURRENT_H      | R   | WORKING_CURRENT[15:8]         |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                        |
| 0A                            | TX_NTC_TEMPERATURE        | R   | NTC_TEMPERATURE[7:0]          |          |     |     |          |    |          |        |                     | 15                                                                                                                                                                                                                                                                                                                                               | unit: °C                                                                                                                               |
| 0B                            | TX_NTC_TEMPERATURE        | R   | NTC_TEMPERATURE[15:8]         |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                        |
| 0C                            | MASTER_MSG                | R/W | READY                         | RESERVED |     |     |          |    | ADP_TYPE |        | 00                  | "READY=1", master ready; "READY=0", master not ready; "ADP_TPYPE=0b000", DCP; "ADP_TPYPE=0b001", QC2.0(can support 5V/9V output adapter, but the current capacity is not clear); "ADP_TPYPE=0b010", PD2.0(can support 5V/9V output adapter, and the current capacity is clear); "ADP_TPYPE=0b011", QC3.0_12V/QC3.0_20V; "ADP_TPYPE=others", DCP; |                                                                                                                                        |
| 0D                            | TX_Q_VALUE                | R   | Q_VALUE                       |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               | TX QDT value                                                                                                                           |
| 0E                            | TX_F_VALUE_L              | R   | F_VALUE[7:0]                  |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               | unit: 0.1KHz                                                                                                                           |
| 0F                            | TX_F_VALUE_H              | R   | F_VALUE[15:8]                 |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                        |
| 10                            | MASTER_SEL_ADAP_VOLT_L    | R/W | MASTER_SEL_ADAP_VOLT[7:0]     |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               | unit: mV                                                                                                                               |
| 11                            | MASTER_SEL_ADAP_VOLT_H    | R/W | MASTER_SEL_ADAP_VOLT[15:8]    |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               | *MASTER_SEL_ADAP_VOLT* is the selected voltage value of adapter. The master should send this value before setting the "READY" to 1.    |
| 12                            | MASTER_SEL_ADAP_CURRENT_L | R/W | MASTER_SEL_ADAP_CURRENT[7:0]  |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               | unit: mA                                                                                                                               |
| 13                            | MASTER_SEL_ADAP_CURRENT_H | R/W | MASTER_SEL_ADAP_CURRENT[15:8] |          |     |     |          |    |          |        |                     | 00                                                                                                                                                                                                                                                                                                                                               | *MASTER_SEL_ADAP_CURRENT* is the selected current value of adapter. The master should send this value before setting the "READY" to 1. |

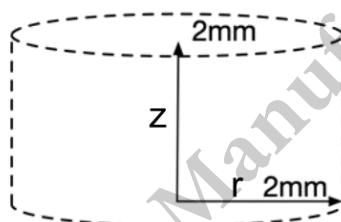
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## 10. Attentions- Power Delivery/注意事項-功率分配

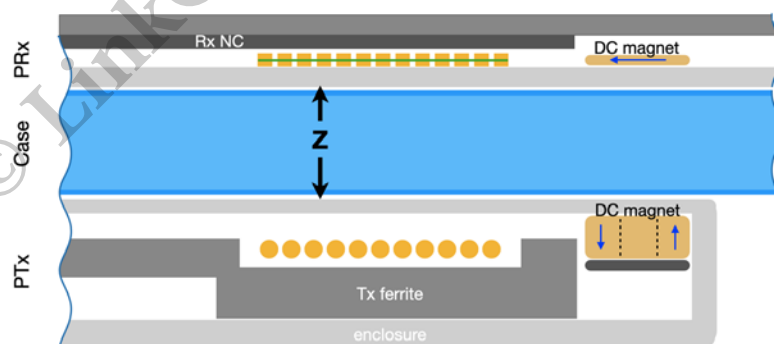
- 10.1. The PTx shall provide a BPP PRx with at least 5W of rectified power for  $0\text{mm} \leq z \leq 3\text{mm}$ ,  $0\text{mm} \leq r \leq 8\text{mm}$ , see below figure.



- 10.2. 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.



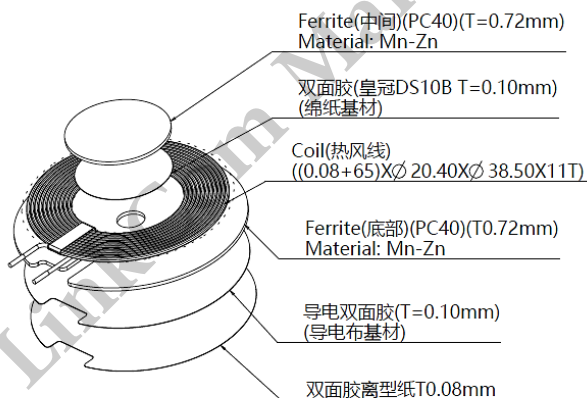
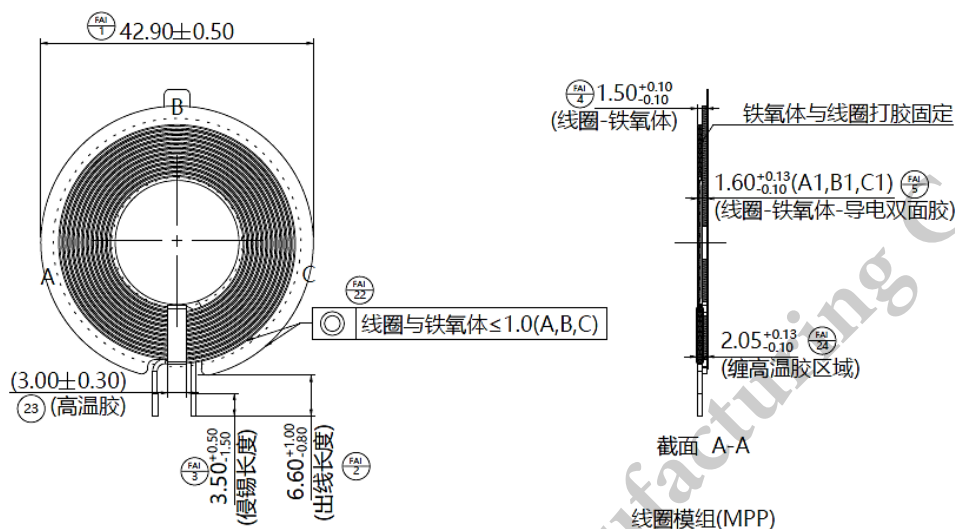
- 10.3. The PTx shall provide a MPP PRx with at least 5W of rectified power for  $0 \leq z \leq 3\text{mm}$ ,  $0\text{mm} \leq r \leq 4\text{mm}$



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

|           |                        |            |                                 |
|-----------|------------------------|------------|---------------------------------|
| Model No. | QI2QT-6135C1           | Model Name | 15W MPP wireless charger module |
| Part No.  | ILMQI2QT-6135C1C1-XX-1 | Size       | Ø54.0 <sup>+0.3</sup> *5.4 mm   |

## 11. Coil and ferrite drawing descriptions/線圈和鐵氧體圖紙說明



| Parameter             |           |                     |
|-----------------------|-----------|---------------------|
| IND<br>(100 KHZ/1.0V) | DCR       | Q<br>(100 KHZ/1.0V) |
| 8.1uH±5%              | 70mΩ(Max) | 60±10%              |

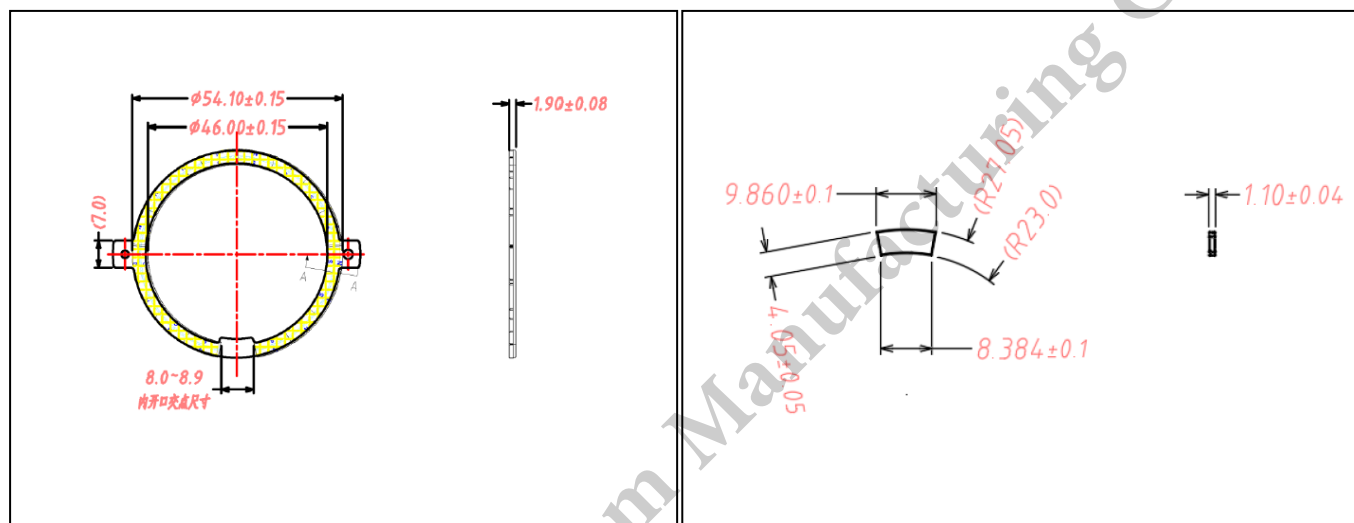
|           |                        |            |                                 |
|-----------|------------------------|------------|---------------------------------|
| Model No. | QI2QT-6135C1           | Model Name | 15W MPP wireless charger module |
| Part No.  | ILMQI2QT-6135C1C1-XX-1 | Size       | Ø54.0 <sup>±0.3</sup> *5.4 mm   |

## 12. Magnet diagram description/磁鐵圖紙說明

This magnetic module is mainly used in conjunction with the magnetic wireless charging solution. It is composed of 16 customized single-sided bipolar magnets and 1 pre-galvanized magnetic steel sheet.

此磁性模組，主要配合磁吸無線充電方案配套使用，由定制的 16pcs 單面雙極磁鐵和 1pcs 預鍍鋅導磁鋼片組合而成。

### 12.1. Magnet diagram/磁鐵尺寸圖

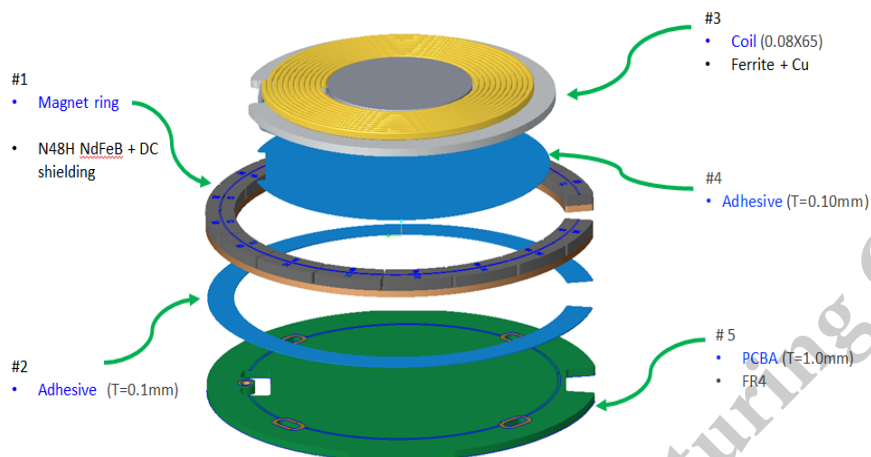


### 12.2. Magnet performance table/磁鐵性能表

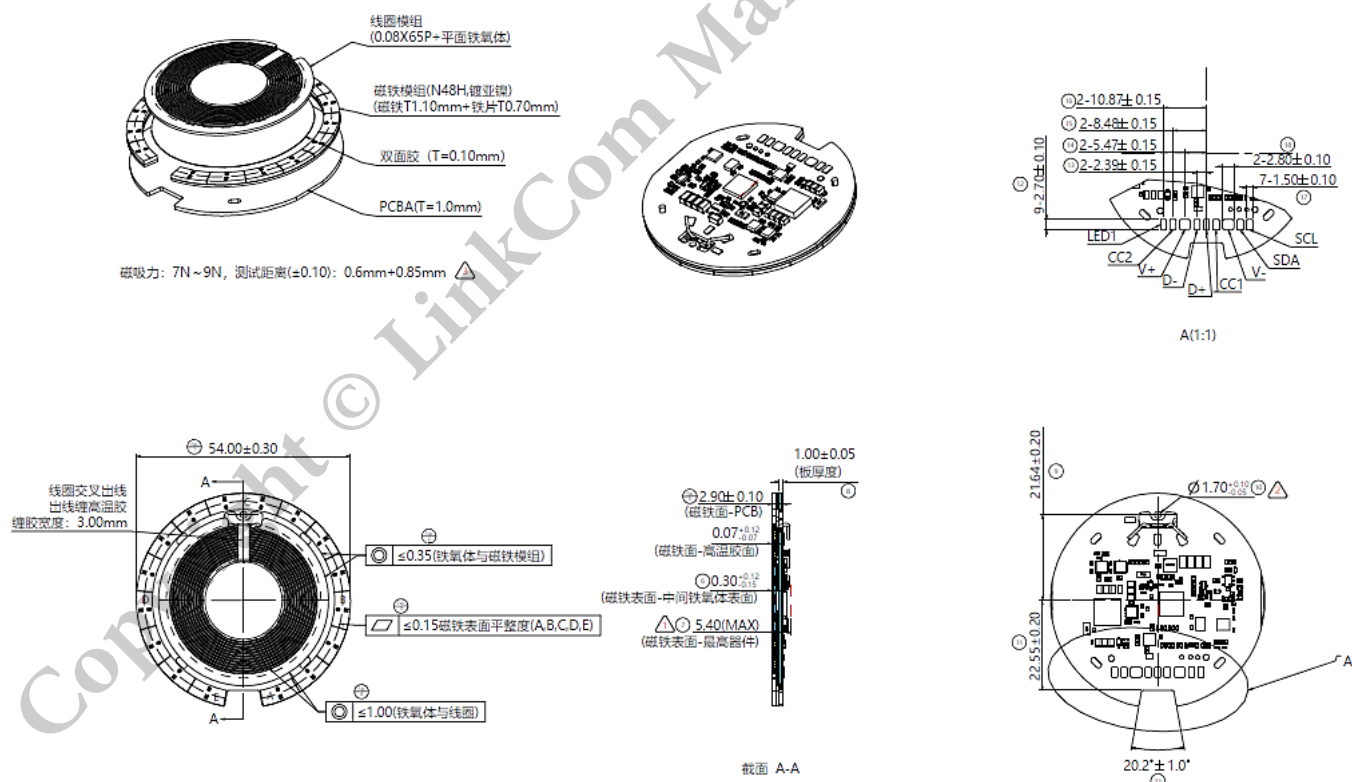
| 項 目       | 描 述                                                                                                                  |
|-----------|----------------------------------------------------------------------------------------------------------------------|
| 原材料       | 燒結釹鐵硼 NdFeB N48H<br>Br : 13.7~14.1 (KGs)<br>HcB : 13.0 MIN (Koe)<br>Hcj. : 17.0MIN (Koe)<br>BH(max) : 45~48.0 (MG0e) |
| 拉力值 (吸附力) | > 7 N<br>(Interval 0.85mm, according to the specified test method)                                                   |
| 極性        | 單面雙極性，正面磁鋼面朝上/外弧 N 極，內弧 S 極                                                                                          |
| 形狀        | 弧形磁鐵                                                                                                                 |
| 表面處理      | Nicuni plating 7-15um                                                                                                |
| 高斯值       | 3300 Gs MIN                                                                                                          |
| 數量        | 16 pcs                                                                                                               |

|           |                        |            |                                 |
|-----------|------------------------|------------|---------------------------------|
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| Part No.  | ILMQI2QT-6135C1C1-XX-1 | Size       | Ø54.0 <sup>±0.3</sup> *5.4 mm   |

### 13. Module Assembly/模組組裝



### 14. Module dimension/模組尺寸



### 15. Weight/重量

QI2QT-6135C1 : 24±2g

1 Carton/1 箱: 200pcs; Net Weight/淨重: about 4.8kg; Gross Weight/毛重: about 6.95kg



|           |                        |            |                                 |
|-----------|------------------------|------------|---------------------------------|
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## 16. Packaging/包裝

### Carton Packing Method

2025.04.24

Outer Carton : 200 pcs size : W 422 x D 312 x H 146mm

( boxes) NW : kg GW : kg

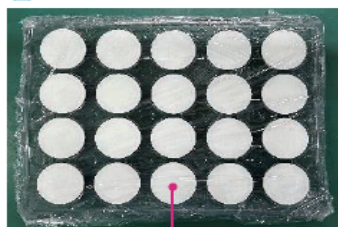
Inner Carton : pcs size : W x D x H mm

( boxes) NW : kg GW : kg

天地盖: 407x207mm(2PCS/内箱)

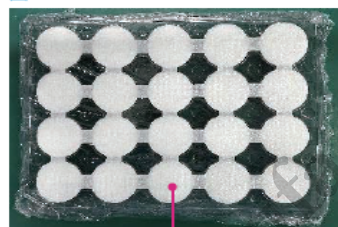
#### PRODUCT

图一



模組

图二



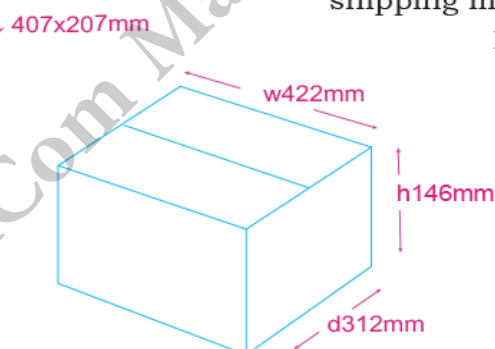
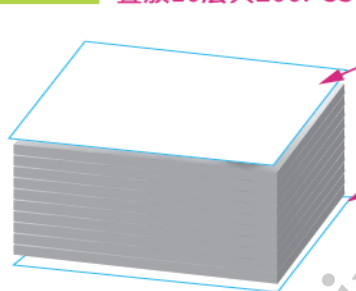
垫棉

weight:

将产品盖面朝上放入托盘卡槽中，  
1托盘装20pcs,放好产品之后用缠绕膜  
把托盘顶部盖住，不用360度缠绕，  
只需盖住所有产品即可，如图一；  
盖好缠绕膜后再放一块垫棉，如图二；  
一箱10个托盘共200pcs产品。（托盘、  
垫棉客供复用）

#### OUTER

叠放10层共200PCS



shipping mark: 4 faces

line:

pcs: 200

#### INNER

shipping mark: 4 faces

line:

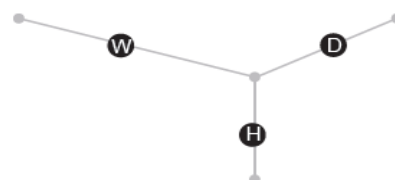
pcs:

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-6135C1           | Model Name | 15W MPP wireless charger module |
| Part No.  | ILMQI2QT-6135C1C1-XX-1 | Size       | Ø54.0 <sup>±0.3</sup> *5.4 mm   |

## 17.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.

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