

# SPECIFICATION FOR APPROVAL

CUSTOMER: 公司中性品

MODEL NO. : QI2QT-6152A1/QI2QT-6152B1/QI2QT-6152C1

PART NO. : ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1  
ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1

MODEL NAME: 15W EPP+MPP wireless charger module

REVISION: A2

DATE: 2025-5-20

## APPROVED SIGNATURES

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|           |                                                                                                |            |                                                                                                                             |
|-----------|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                         |
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | Ø58.56 <sup>±0.3</sup> *7.88 <sup>±0.25</sup> /Ø56.2 <sup>±0.3</sup> *6.97 <sup>±0.25</sup> / Ø56.2 <sup>±0.3</sup> *5.68mm |

## Product Specification

## 產品規格書

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

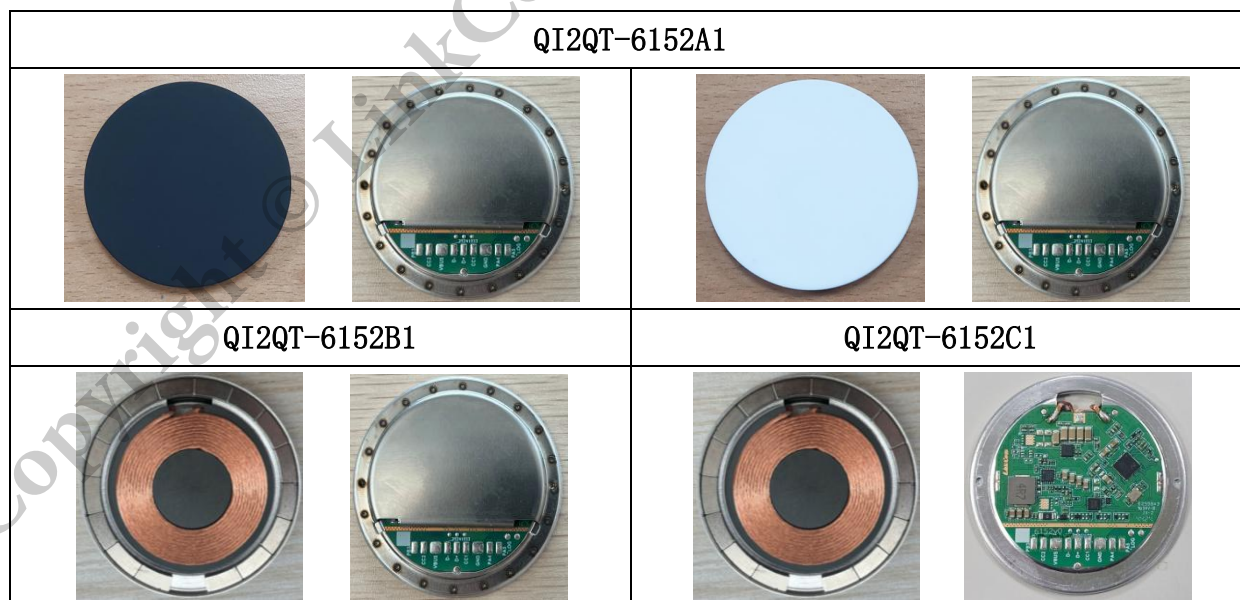
Model No/ 產品型號: QI2QT-6152A1/QI2QT-6152B1/QI2QT-6152C1

File number /文件編號:

Revision/版本號: A2

Date/日期: 2025-5-20

### 產品照片



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

|           |                                                                                                |            |                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                                      |
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | $058.56^{+0.3}_{-0.3} \times 7.88^{+0.25}_{-0.25} / 056.2^{+0.3}_{-0.3} \times 6.97 \pm 0.25 / 056.2^{+0.3}_{-0.3} \times 5.68\text{mm}$ |

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| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                                      |
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | $058.56^{+0.3}_{-0.3} \times 7.88^{+0.25}_{-0.25} / 056.2^{+0.3}_{-0.3} \times 6.97 \pm 0.25 / 056.2^{+0.3}_{-0.3} \times 5.68\text{mm}$ |

## Reversion History/更新記錄

| Revision | Date      | Changes                                                                                                                     |
|----------|-----------|-----------------------------------------------------------------------------------------------------------------------------|
| A0       | 2025.2.6  | New release                                                                                                                 |
| A1       | 2025.2.19 | Add Model No. 、audio noise                                                                                                  |
| A2       | 2025.5.20 | Add consumer application description 、check sum 、<br>packaging 、execution standards.<br>Updates output protocol 、dimension. |
|          |           |                                                                                                                             |
|          |           |                                                                                                                             |
|          |           |                                                                                                                             |
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|-----------|------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                                         |
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## 1. Product Description/產品描述

QI2QT-6152 supports Qi 2.0 MPP/EPP/BPP protocols. It can support both DC power and QC/PD inputs and is compatible with input voltages of 5V and 9V. The maximum power is 15W, it can support 15W charging power for MPP RX device, and 7.5W fast charging power for Apple non-MPP phones, and 5W charging for BPP RX device.

QI2QT-6152 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-6152A1 支援 Qi 2.0 MPP/EPP/BPP 協定。它可同時支援直流電源和 QC/PD 輸入，並相容於 5V 和 9V 的輸入電壓。最大功率 15W，支援對 MPP RX 設備 15W 充電功率，對蘋果非 MPP 手機支援 7.5W 快充功率，對 BPP RX 設備支援 5W 充電。

QI2QT-6152 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
- ◆ Compatible with Qi MPP 2.0 and EPP 2.0 certification standard.  
符合 Qi MPP 2.0 及 EPP 2.0 標準

|           |                                                                                                |            |                                                                                                                             |
|-----------|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                         |
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | 058.56 <sup>±0.3</sup> *7.88 <sup>±0.25</sup> /056.2 <sup>±0.3</sup> *6.97 <sup>±0.25</sup> / 056.2 <sup>±0.3</sup> *5.68mm |

### 3. Performance Parameter/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                                                                     |
| Output Protocol/輸出協定            | MPP-15W/EPP-15W/BPP-5W/APL-7.5W/PPDE-10W                                    |
| Standby power/待機功率              | <350mW                                                                      |
| Efficiency/效率                   | 80% (Max)                                                                   |
| Frequency/頻率                    | BPP:128KHz<br>MPP: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 UVP 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)/<br>Power Transfer FOD                          |
| Interface Power/介面電源            | V+, V-, D+, D-, CC1, CC2                                                    |
| Interface Debug pins/介面調試引腳     | LOG                                                                         |
| Interface Other GPIO/其他 GPIO 介面 | PB3/PA4/PA5                                                                 |
| Audio noise/噪聲規格                | The test distance is 15 cm < 30dB (noise spec)                              |
| Checksum/軟件版本                   | TBD                                                                         |

|           |                                                                                                |            |                                                                                                                             |
|-----------|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                         |
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | 058.56 <sup>±0.3</sup> *7.88 <sup>±0.25</sup> /056.2 <sup>±0.3</sup> *6.97 <sup>±0.25</sup> / 056.2 <sup>±0.3</sup> *5.68mm |

#### 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. Environmental characteristic/環境特性

##### 5.1. 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   |

##### 5.2. 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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## 6. PCBA function/PCBA 功能

| QI2QT-6152                                                                         |                  |                       |            |
|------------------------------------------------------------------------------------|------------------|-----------------------|------------|
|  |                  |                       |            |
| Pin                                                                                | USB-C cable mode | USB-C Receptacle mode | DC 9V mode |
| PA3                                                                                | 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        |
| PA4                                                                                | NC               | NC                    | NC         |
| PA5                                                                                | NC               | NC                    | NC         |

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

## 7. LED light function/LED 功能說明

User can connect a LED anode to the PB3 pad. There is a 1KΩ resistor connect PB3 pad to 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.

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

|           |                                                                                                |            |                                                                                                                                          |
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## 8. Temperature and output power/溫度和輸出功率

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) |
|--------------------------|-------------|
| ≤5                       | 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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## 9. I2C interface/I2C 接口

Users can get the Module status or send the 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 be used 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

| 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_L    | R   | NTC_TEMPERATURE[7:0]     |          |     |     |          |    |    |        | 15                                                                                                                                                                                                                                                                                                                                       | unit: °C                                                                                                                                                                                     |  |
| 0B              | TX_NTC_TEMPERATURE_H    | R   | NTC_TEMPERATURE[15:8]    |          |     |     |          |    |    |        | 00                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                              |  |
| 0C              | AP_MSG                  | R/W | READY                    | RESERVED |     |     | ADP_TYPE |    |    | 00     | *READY=1*, AP ready; *READY=0*, AP 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_LC_FREQ_VALUE_L      | R   | LC_FREQ_VALUE[7:0]       |          |     |     |          |    |    |        | 00                                                                                                                                                                                                                                                                                                                                       | unit: 0.1KHz                                                                                                                                                                                 |  |
| 0F              | TX_LC_FREQ_VALUE_H      | R   | LC_FREQ_VALUE[15:8]      |          |     |     |          |    |    |        | 00                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                              |  |
| 10              | AP_SEL_ADP_VOLT_L       | R/W | AP_SEL_ADP_VOLT[7:0]     |          |     |     |          |    |    |        | 00                                                                                                                                                                                                                                                                                                                                       | unit: mV                                                                                                                                                                                     |  |
| 11              | AP_SEL_ADP_VOLT_H       | R/W | AP_SEL_ADP_VOLT[15:8]    |          |     |     |          |    |    |        | 00                                                                                                                                                                                                                                                                                                                                       | *AP_SEL_ADP_VOLT* is the selected voltage value of adapter. The AP should send this value before setting the "READY" to 1.                                                                   |  |
| 12              | AP_SEL_ADP_CURRENT_L    | R/W | AP_SEL_ADP_CURRENT[7:0]  |          |     |     |          |    |    |        | 00                                                                                                                                                                                                                                                                                                                                       | unit: mA                                                                                                                                                                                     |  |
| 13              | AP_SEL_ADP_CURRENT_H    | R/W | AP_SEL_ADP_CURRENT[15:8] |          |     |     |          |    |    |        | 00                                                                                                                                                                                                                                                                                                                                       | *AP_SEL_ADP_CURRENT* is the selected current value of adapter. The AP should send this value before setting the "READY" to 1.                                                                |  |
| 14              | RESERVED_1              | R   | RESERVED                 |          |     |     |          |    |    |        |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |  |
| 15              | RESERVED_2              | R   | RESERVED                 |          |     |     |          |    |    |        |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |  |
| 16              | TX_POWERSTAGE_VOLT_L    | R   | POWERSTAGE_VOLT[7:0]     |          |     |     |          |    |    |        |                                                                                                                                                                                                                                                                                                                                          | unit: mV                                                                                                                                                                                     |  |
| 17              | TX_POWERSTAGE_VOLT_H    | R   | POWERSTAGE_VOLT[15:8]    |          |     |     |          |    |    |        |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |  |
| 18              | TX_POWERSTAGE_CURRENT_L | R   | POWERSTAGE_CURRENT[7:0]  |          |     |     |          |    |    |        |                                                                                                                                                                                                                                                                                                                                          | unit: mA                                                                                                                                                                                     |  |
| 19              | TX_POWERSTAGE_CURRENT_H | R   | POWERSTAGE_CURRENT[15:8] |          |     |     |          |    |    |        |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |  |
| 1A              | IO_CONTROL              | R/W | IO_CONTROL[7:0]          |          |     |     |          |    |    |        | 00                                                                                                                                                                                                                                                                                                                                       | IO_CONTROL.bit0: 1 indicate Pin8(DRVH2) output high level, 0 indicate Pin8 output low level.<br>IO_CONTROL.bit1: 1 indicate Pin19(PA5) output high level, 0 indicate Pin19 output low level. |  |

|           |                                                                                                |            |                                                                                                                             |
|-----------|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                         |
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | 058.56 <sup>±0.3</sup> *7.88 <sup>±0.25</sup> /056.2 <sup>±0.3</sup> *6.97 <sup>±0.25</sup> / 056.2 <sup>±0.3</sup> *5.68mm |

## 10. Reliability Requirements/可靠性要求

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》。

## 11. Execution Standards/執行標準

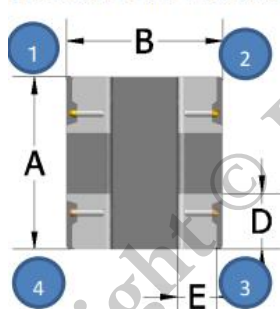
### 11.1. EMI Standards/電磁相容標準

N/A

- 11.2. 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  |

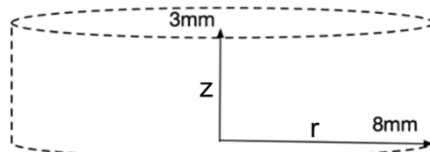
### ■ Electrical Characteristics

| 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                  |

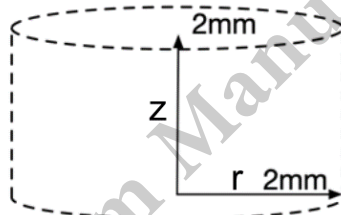
|           |                                                                                                |            |                                                                                                                                                    |
|-----------|------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                                                |
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | $058.56^{+0.3}_{-0.25} \times 7.88^{+0.25}_{-0.25} / 056.2^{+0.3}_{-0.25} \times 6.97^{+0.25}_{-0.25} / 056.2^{+0.3}_{-0.25} \times 5.68\text{mm}$ |

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

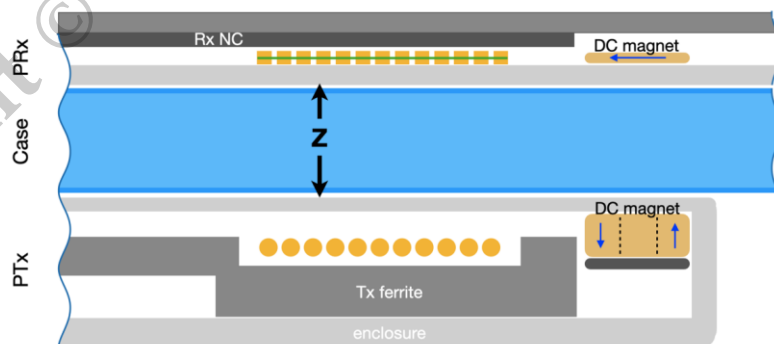
- 12.1. The PTx shall provide a BPP PRx with at least 5W of rectified power for  $0\text{mm} \leq z \leq 3\text{mm}$ ,  $0\text{mm} \leq r \leq 8\text{mm}$ , see below figure.



- 12.2. 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.



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

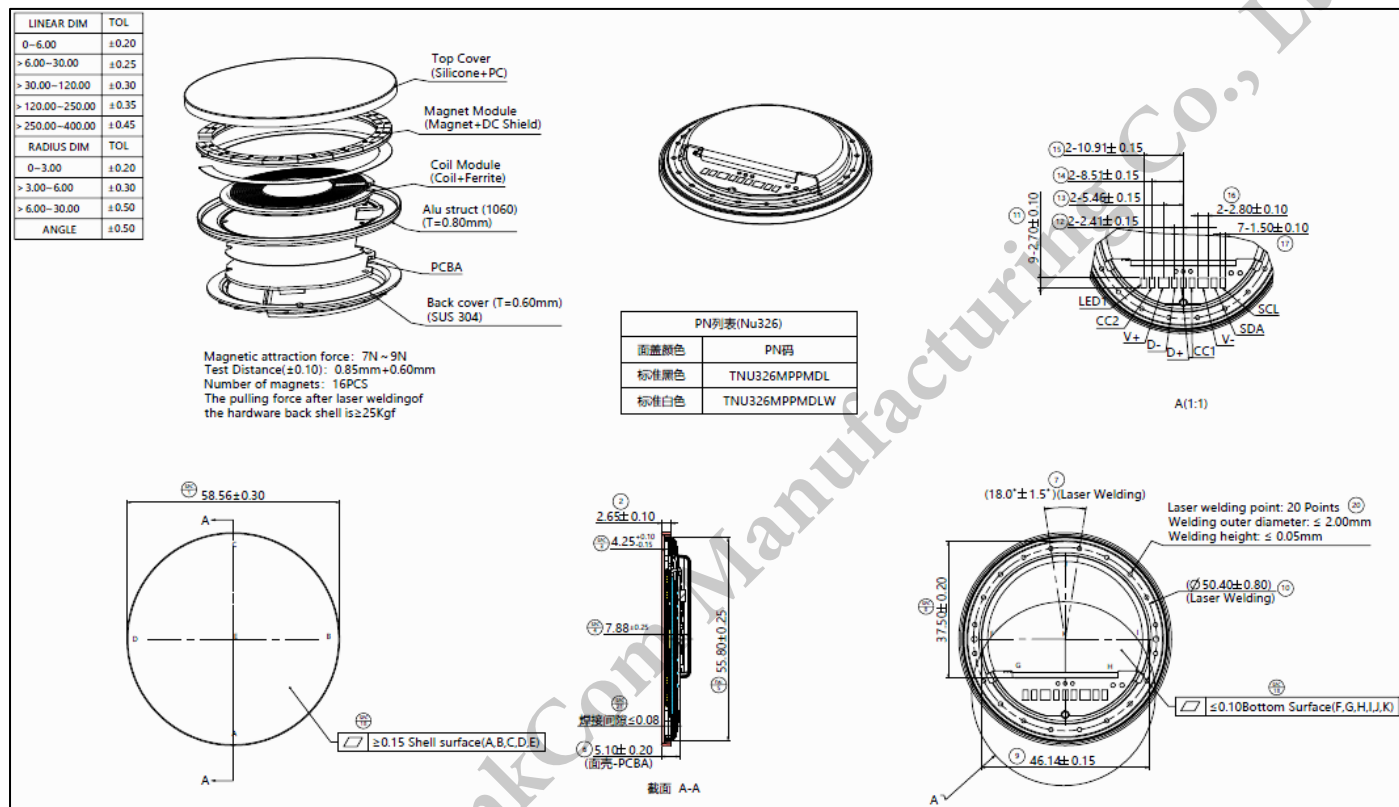


z: distance from transmitter surface to receiver surface  
Coil-to-coil distance is larger than z.

| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                         |
|-----------|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | Ø58.56 <sup>±0.3</sup> *7.88 <sup>±0.25</sup> /Ø56.2 <sup>±0.3</sup> *6.97 <sup>±0.25</sup> / Ø56.2 <sup>±0.3</sup> *5.68mm |

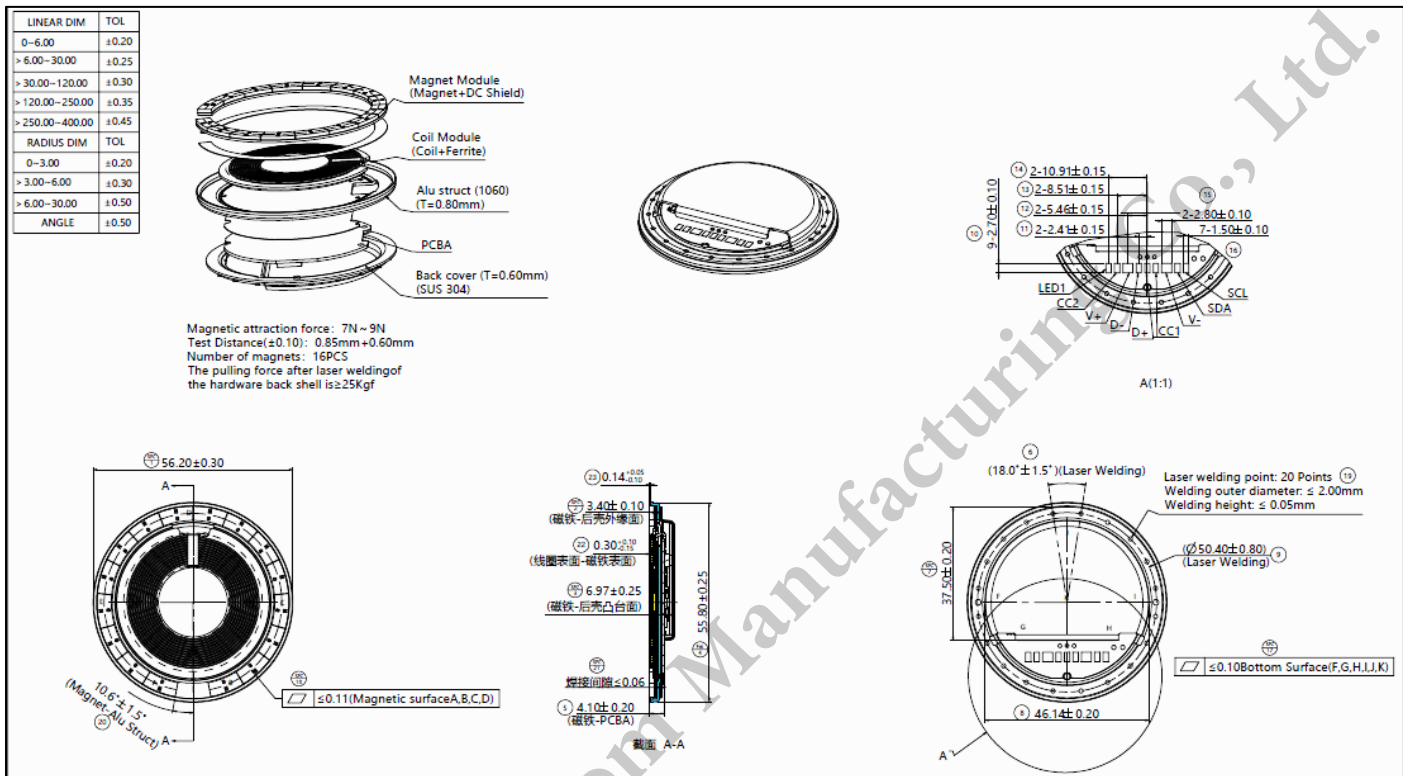
### 13. Module dimension/模組尺寸

- QI2QT-6152A1 : Ø58.56<sup>±0.3</sup>\*7.88<sup>±0.25</sup>mm



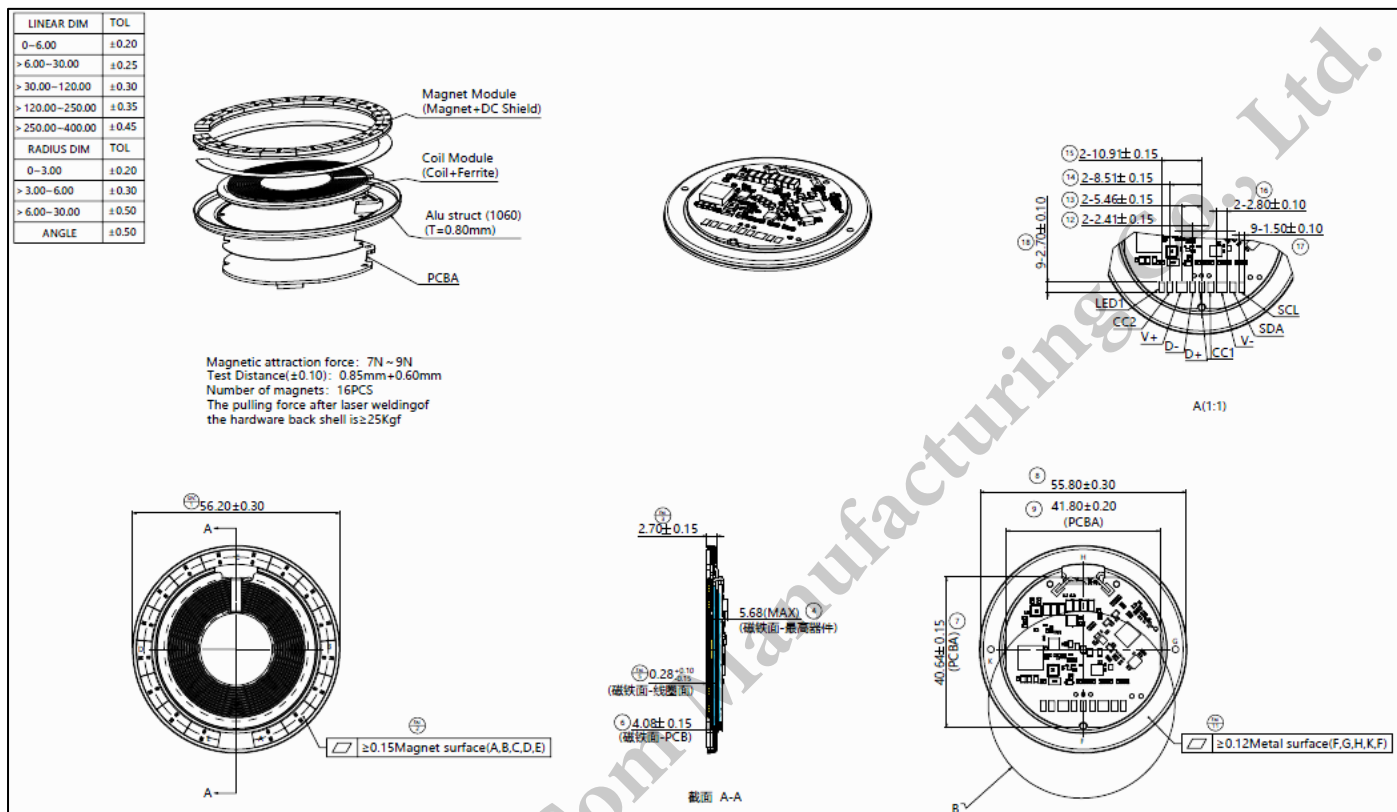
| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | $058.56^{+0.3}_{-0.25} \times 7.88^{+0.25}_{-0.25} / 056.2^{+0.3}_{-0.25} \times 6.97^{+0.25}_{-0.25} / 056.2^{+0.3}_{-0.25} \times 5.68^{+0.25}_{-0.25}$ mm |

● QI2QT-6152B1 :  $056.2^{+0.3}_{-0.25} \times 6.97^{+0.25}_{-0.25}$ mm



| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                         |
|-----------|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | Ø58.56 <sup>±0.3</sup> *7.88 <sup>±0.25</sup> /Ø56.2 <sup>±0.3</sup> *6.97 <sup>±0.25</sup> / Ø56.2 <sup>±0.3</sup> *5.68mm |

● QI2QT-6152C1 : Ø56.2<sup>±0.3</sup>\*5.68mm



## 14. Weight/重量

QI2QT-6152A1 : 41±2g; 1 Carton/1 箱: 200pcs; Net Weight/淨重: about 8.2kg;

Gross Weight/毛重: about 10.75kg

QI2QT-6152B1 : 37.5±2g; 1 Carton/1 箱: 200pcs; Net Weight/淨重: about 7.5kg;

Gross Weight/毛重: about 10.05kg

QI2QT-6152C1 : 27.5±2g; 1 Carton/1 箱: 200pcs; Net Weight/淨重: about 5.5kg;

Gross Weight/毛重: about 8.05kg

|           |                                                                                                |            |                                                                                                                             |
|-----------|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Model No. | QI2QT-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                         |
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | 058.56 <sup>±0.3</sup> *7.88 <sup>±0.25</sup> /056.2 <sup>±0.3</sup> *6.97 <sup>±0.25</sup> / 056.2 <sup>±0.3</sup> *5.68mm |

## 15. 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)

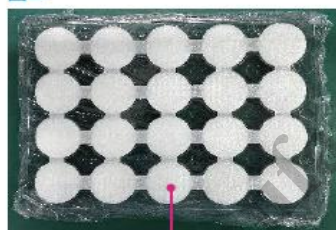
#### PRODUCT

图一



模組

图二



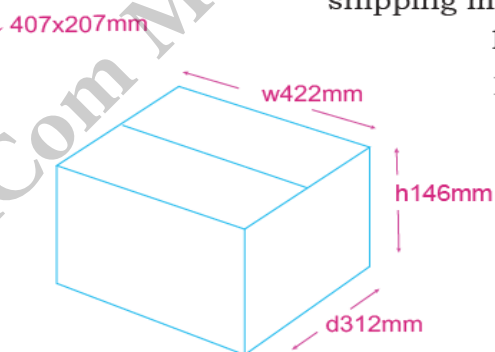
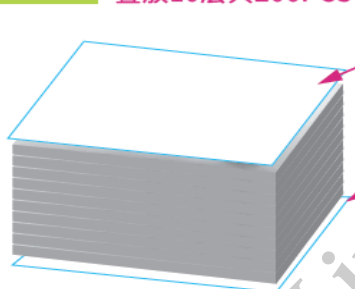
墊棉

weight:

將產品蓋面朝上放入托盤卡槽中，  
1托盤裝20pcs,放好產品之後用纏繞膜  
把托盤頂部蓋住，不用360度纏繞，  
只需蓋住所有產品即可，如圖一；  
蓋好纏繞膜后再放一塊墊棉，如圖二；  
一箱10個托盤共200pcs產品。（托盤、  
墊棉客供复用）

#### OUTER

疊放10層共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-6152A1/<br>QI2QT-6152B1/QI2QT-6152C1                                                     | Model Name | 15W EPP+MPP wireless charger module                                                                                                      |
| Part No.  | ILMQI2QT-6152A1C1-XB-1/ILMQI2QT-6152A1C1-XW-1<br>ILMQI2QT-6152B1C1-XX-1/ILMQI2QT-6152C1C1-XX-1 | Size       | $058.56^{+0.3}_{-0.3} \times 7.88^{+0.25}_{-0.25} / 056.2^{+0.3}_{-0.3} \times 6.97 \pm 0.25 / 056.2^{+0.3}_{-0.3} \times 5.68\text{mm}$ |

## 16. 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.