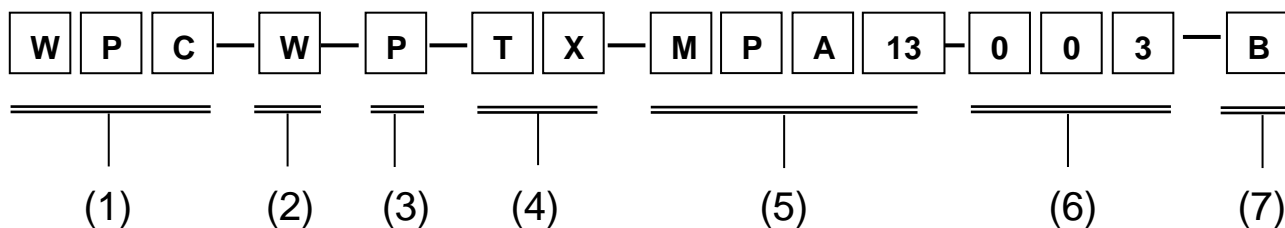


## WPC-W-P-TX-MPA13-003-B Specification

### 1. Explanation of Part Number :



- (1) Product type: Wireless Power Charging
- (2) Mode: WPC
- (3) Active or passive: Passive
- (4) Type: Power Transmitter
- (5) Antenna material or type: WPC Power Transmitter type
- (6) Suffix : Serial number
- (7) Vehicle use :Before loading

UNLESS OTHER SPECIFIED TOLERANCES ON :

$X = \pm$        $X.X = \pm$        $X.XX =$

ANGLES =  $\pm$       HOLE DIA =  $\pm$



**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/A

UNIT : mm

DRAWN BY : 王聖元

CHECKED BY : 鄭榮謀

DESIGNED BY : 張肇庭

APPROVED BY : 洪碩國

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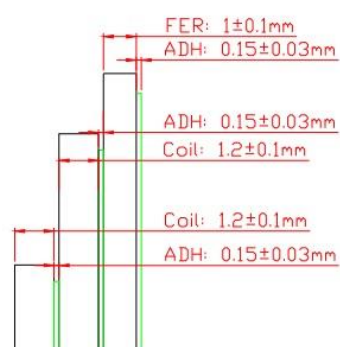
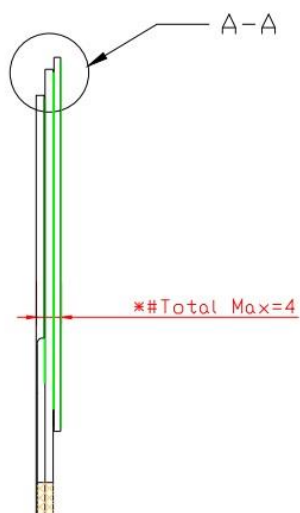
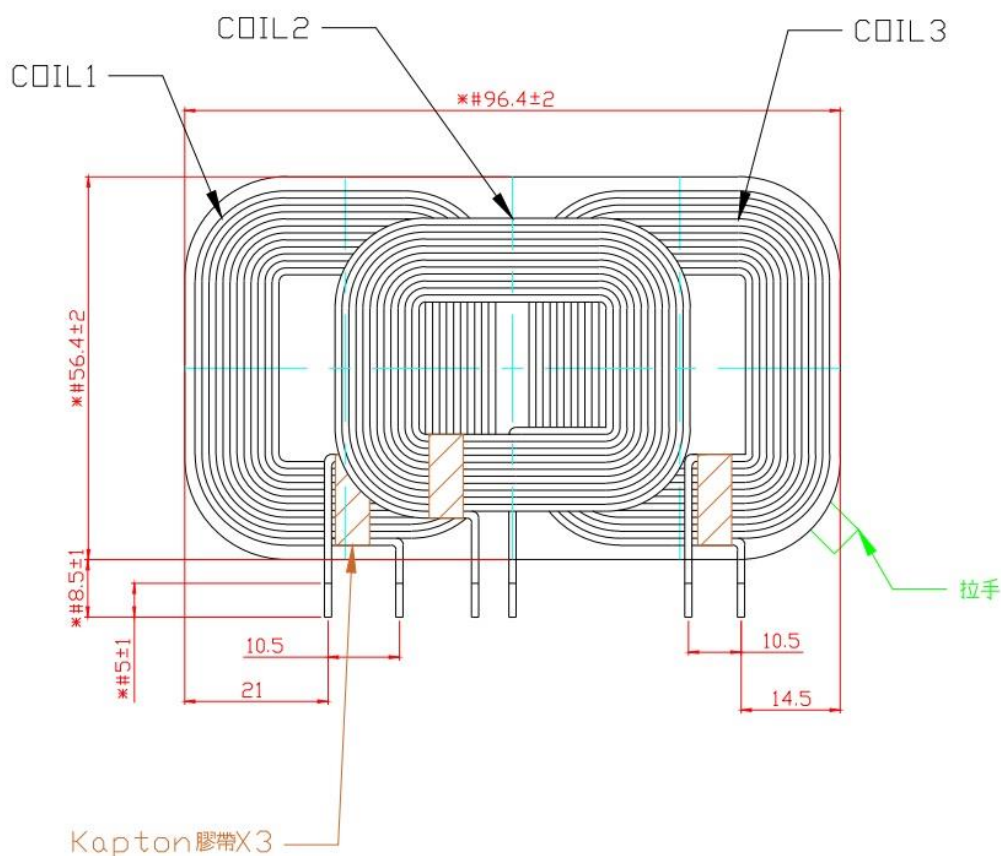
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## 2. Dimension:



Scale 5:1  
A-A

UNLESS OTHER SPECIFIED TOLERANCES ON :

$$X = \pm \quad X.X = \pm \quad X.XX =$$

**ANGLES = ±                      HOLE DIA = ±**



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UNIT : mm

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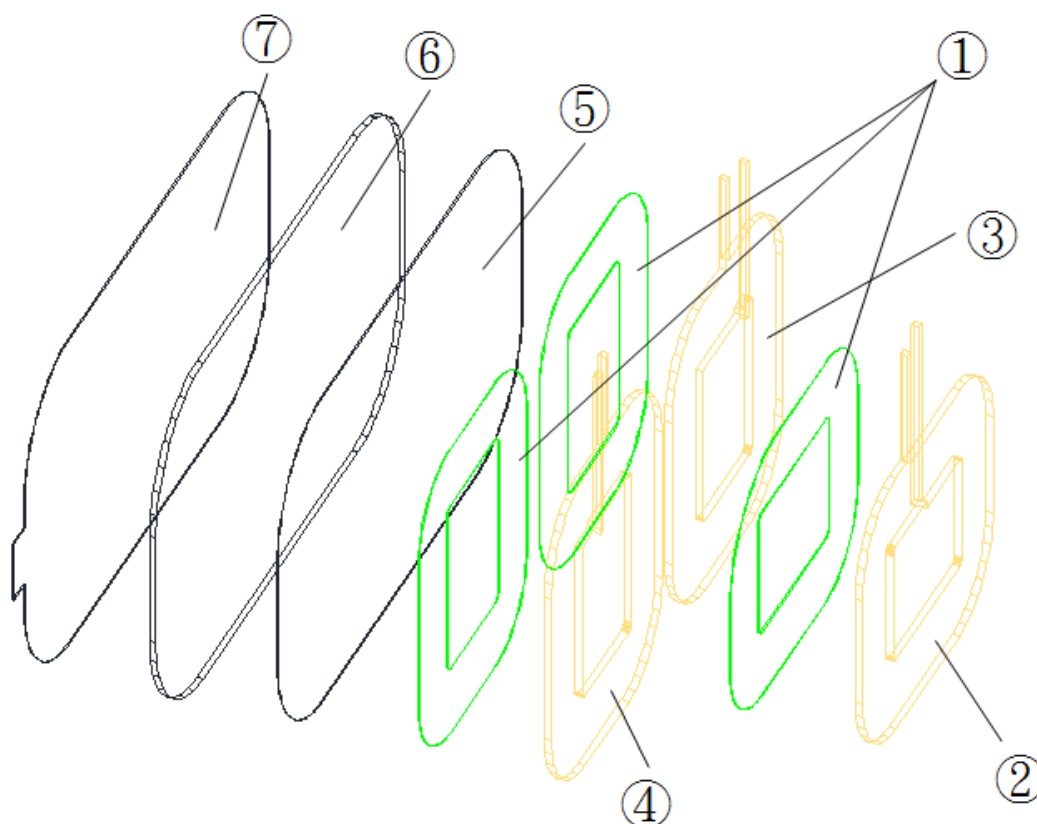
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## NOTE:

1. 材質:  
Material :
2. 外觀標準:需完整無破損,不可有變形、髒污、毛邊、翹曲、裂縫、褶疊等情形。  
Appearance standard : They must be complete. It means those must not have the deformations, dirt, burrs, warps, cracks, folds, etc.
3. 工程圖上"※"號為重點尺寸標註指示  
Mark "※" are the key dimensions.
4. 工程圖上"# "號為Cpk量測尺寸標註指示  
Mark "# " are CPK dimensions.

## 3.Solid picture and Material list:



Index	Item	Description	Color	Q'ty
1	Adhesive	D51.3x43.3x0.15mm	Transparent	3
2	Coil2	Coil_19.5x27.5mm,0.08x105x12TS_TOP	Pastel orange	1
3	Coil1	Coil_19.5x27.5mm,0.08x105x11TS_Left	Pastel orange	1
4	Coil3	Coil_19.5x27.5mm,0.08x105x11TS_Right	Pastel orange	1
5	Ferrite Core	DMR40,96.4x56.4mm, T=1mm	Black	1
6	Adhesive	D96x56x0.15mm	White translucency	1
7	Release paper	GLASSINE	White	1

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ±      X . X = ±      X . X X =

ANGLES = ±      HOLE DIA = ±



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**4. Coil Specification:**

- a.) COIL MATERIAL:0.08\*105P(USTC)  
 b.) ONE LAYERS COIL 12 TURNS (Coil 1,Coil 2,Coil 3)

**5. Test Condition:**

## 5.1 Test Equipment

NO	ITEM	Maker/Part name	Remark
1	LCR Meter	WAYNE KERR 6500B	L/Q/Rdc Tester
2	Test Fixture	WAYNE KERR FIXTURE 20A 1030	
3	Calibration Kit	INPAQ Internal	

## 5.2 Electrical Specification

Coil 1		
Test Item	Test Condition	Specification
Inductance	100K Hz, 1V	12.5 uH $\pm$ 10%
Q value	100K Hz, 1V	80 Min
DCR	1Hz@25°C	75 mΩ Max
FLQ(100K~200K)		

Coil 2		
Test Item	Test Condition	Specification
Inductance	100K Hz, 1V	11.5 uH $\pm$ 10%
Q value	100K Hz, 1V	80 Min
DCR	1Hz @25°C	75 mΩ Max
FLQ(100K~200K)		

Coil 3		
Test Item	Test Condition	Specification
Inductance	100K Hz, 1V	12.5 uH $\pm$ 10%
Q value	100K Hz, 1V	80 Min
DCR	1Hz @25°C	75 mΩ Max
FLQ(100K~200K)		

UNLESS OTHER SPECIFIED TOLERANCES ON :

X =  $\pm$       X.X =  $\pm$       X.XX =ANGLES =  $\pm$       HOLE DIA =  $\pm$ 

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## 6. Reliability Test:

NO	ITEM	Condition	Characteristics	Remark
1	High Temp. Storage Test	Initial value measured at standard test condition. Test Conditions: $85 \pm 5^{\circ}\text{C}$ , 48hr Measuring After 1-2hr at standard conditions.	- No electrical, appearance problem	
2	Low Temp. Storage Test	Initial value measured at standard test condition. Test Conditions: $-40 \pm 5^{\circ}\text{C}$ , 48hr Measuring After 1-2hr at standard conditions.		
3	Temperature cycle Test	Initial value measured at standard test condition. Test Conditions: $-40^{\circ}\text{C}$ , 0.5hr $\rightarrow$ $85^{\circ}\text{C}$ , 0.5hr Test Cycle: 50 times Measuring After 1-2hr at standard conditions.		
4	High Temp & Humidity Storage Test	Initial value measured at standard test condition. Test Conditions: $85 \pm 5^{\circ}\text{C}$ , $85 \pm 5\%$ RH, 48hr Measuring After 1-2hr at standard conditions.		option
5	Salinity	Initial value measured at standard test condition. Test Conditions: $35^{\circ}\text{C}$ , 5%, 48hr Measuring After 10min at cleaning with flowing water and 24hr at standard conditions.		option

UNLESS OTHER SPECIFIED TOLERANCES ON :

X =  $\pm$       X.X =  $\pm$       X.XX =ANGLES =  $\pm$       HOLE DIA =  $\pm$ 

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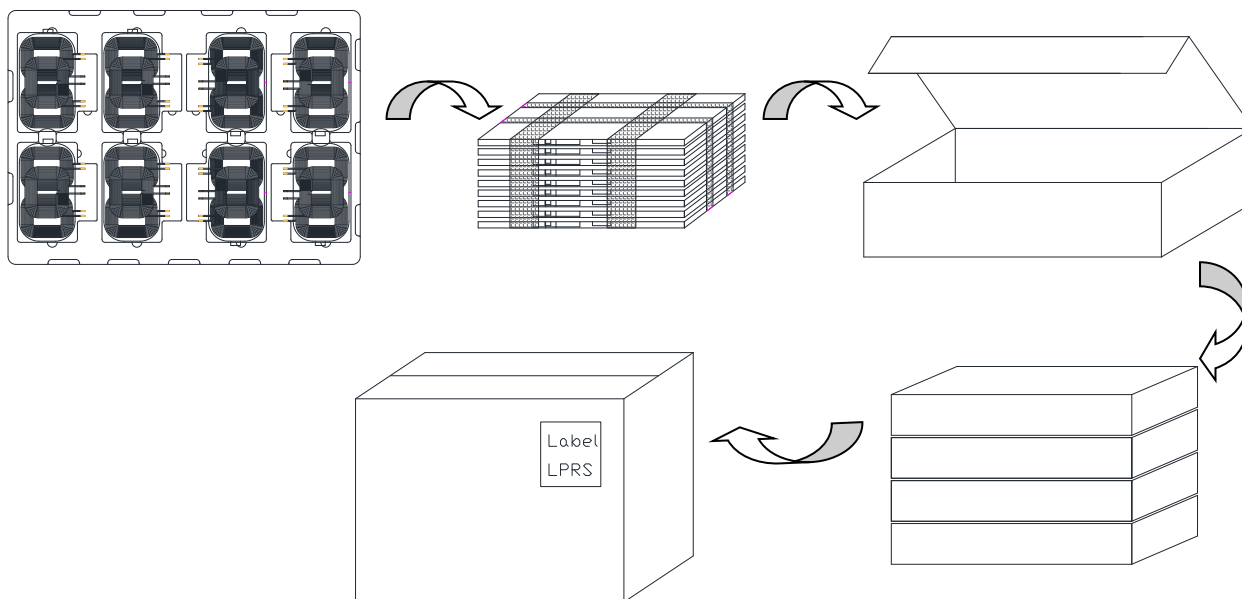
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## 7. Package Spec:



A small boxed : 8 pcs Tray + 1 empty Tray (total 9 pcs), total number of samples  $8 * 8 = 64$  pcs.

A Carton boxed include 4 small boxed, total number of samples  $64 * 4 = 256$  pcs.

## 8. Packing Information:

- 1.) Do not apply high mechanical force or damage on the products during attaching process.
- 2.) Do not store in high temperature or high humidity environments.
- 3.) Avoid heat shock, vibration, direct sunlight, etc.
- 4.) Do not store in corrosive gas atmosphere such as one containing sulfurous acid gas or alkaline gas.

## 9. Operating & Storage Condition:

- 1.) OPERATING TEMPERATURE RANGE:  $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- 2.) STORAGE TEMPERATURE RANGE:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- 9.1. Recommended storage condition :

Store in room condition as listed below: Temperature  $-20^{\circ}\text{C} \sim +45^{\circ}\text{C}$ , Humidity 80% Max.

## 10. Certificate:

IATF16949  
QC080000  
ISO 45001  
ISO9001  
ISO14001  
QI Compatible

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 $X = \pm$        $X.X = \pm$        $X.XX =$   
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