



SPECIFICATION FOR APPROVAL

Customer: _____

Customer P/N: _____

Drawing No: _____

WPC TX Type : W50 高功率 车规(线尾 13.0mm)

Quantity: /

Date: 2025/12/25

Xindafone P/N: XATWWAS100580TXA008

SPECIFICATION ACCEPTED BY:	
COMPONENT ENGINEER	
ELECTRICAL ENGINEER	
MECHANICAL ENGINEER	
APPROVED	
REJECTED	

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Drawn by	Checked by	Approved by
Mingming Li	Mingming Li	Charles Zhang



Wireless Charging Coil Specification

Revisions

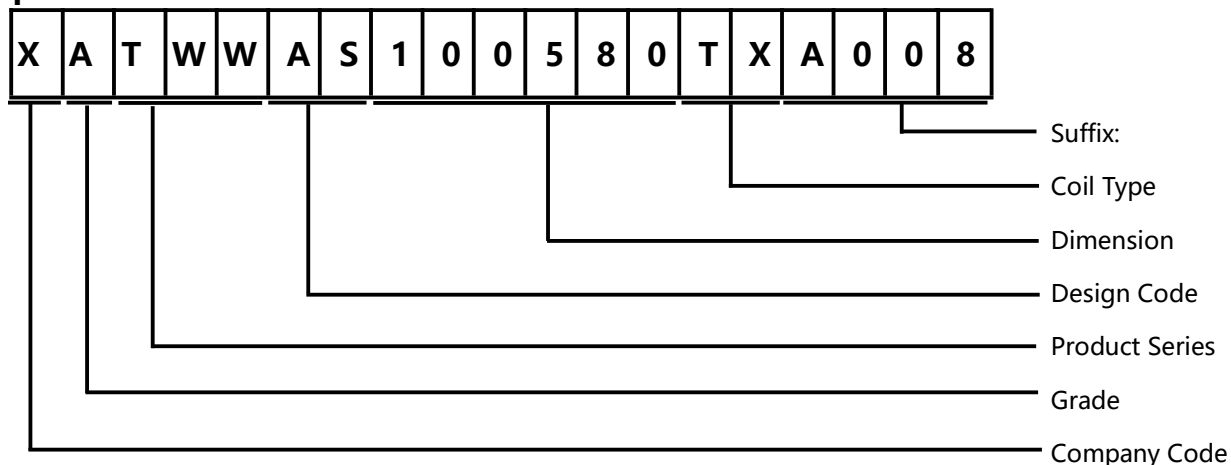
REV	Description	Date	Prepared by	Approved by
A	Preliminary	2025/9/18	Tingyin Huang	Charles Zhang
B	更新命名方式	2025/12/25	Mingming Li	Charles Zhang



Wireless Charging Coil Specification

1.Scope:This specification applies to Wireless charging coil.

2.Explanation of Part Number:



1. Company Code:XDF
2. Grade:A(Automotive), B(General)
3. Product Series:TWW(Wirewound WPC Antenna)
4. Design Code:Follow the Custermer' s setting, default value is 00
5. Dimension:Dimension info ,length, width and height , total 6 number
6. Coil Type:TX (Transmission),RX(Reception)
7. Suffix:Serials number

3.Rating:

Operating Temperature:-40°C~125°C(Including self - temperature rise)

Storage Temperature:-40°C~125°C、 50% RH max.

4.Marking:

NO

5.Standard Testing Condition:

	Unless otherwise spectified	In case of doube
Temperature	Ordinary Temperature(15°Cto 35°C)	20°Cto 30°C
Humidity	Ordinary Humidity(25% to 70% RH) 50% to 70% RH	50% to 70% RH



Technical drawing of a 1000mAh 3.7V lithium battery pack, showing dimensions and labels for the top, side, and front views.

Top View Dimensions and Labels:

- Overall width: 100.0 ± 1.0
- Overall height: 58.0 ± 0.6
- Top edge dimensions (from left to right):
 - 10.5 Ref
 - 1.2 Ref
 - 15.25 Ref
 - 10.5 Ref
 - 15.25 Ref
- Left edge dimensions (from top to bottom):
 - 浸锡长 3.5 ± 1.0
 - 大于2
- Right edge dimensions (from top to bottom):
 - $6 \times 13.0 \pm 1.0$
 - 大于2
- Bottom edge dimensions (from left to right):
 - 大于2
 - 线圆中心距 24.6 ± 2.0
 - 线圆中心距 149.2 ± 4
 - 大于2
- Internal features:
 - 二维码 (QR code)
 - 2*8mm PI 茶色胶带 (2*8mm PI brown tape)
 - 6mm PI 茶色胶带 (6mm PI brown tape)
 - 大于2 (multiple locations)

Side View Dimensions and Labels:

- Thickness: 3.5 ± 0.5 (不含离型纸) (excluding release paper)
- Internal layer thickness: 1.5 ± 0.5
- Labels: 双面胶 (Double-sided tape), 胶水 (Glue), 铁氟龙 (Teflon)

Front View Dimensions and Labels:

- Overall width: 100.0 ± 1.0
- Overall height: 58.0 ± 0.6
- Top edge dimensions (from left to right):
 - 70.0 Ref
 - 66.0 Ref
 - 4.0 Ref
 - 7.0 Ref
- Labels: PET, 离型纸 (Release paper)

The figure shows two technical drawings of coils, labeled COIL 1&3 and COIL 2. Each drawing includes a top view and a side view. The top view shows a rectangular coil with a central square cutout. The dimensions are labeled as follows: A is the total width, C is the width of the central cutout, D is the thickness of the coil, H is the total height, and l is the height of the central cutout. The side view shows the coil's profile, which is a series of concentric rectangular turns.

Parameter	COIL 1&3	COIL 2
A	45.2 ± 0.5	53.2 ± 0.5
C	19.5 ± 0.5	27.5 ± 0.5
D	1.5 ± 0.5	1.5 ± 0.5
H	53.2 ± 0.5	45.2 ± 0.5
l	27.5 ± 0.5	19.5 ± 0.5



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7. Electrical Characteristics:

Test Item	Specification			Test Condition
	COIL1	COIL2	COIL3	100KHz、1V @25°C
Inductance	12.5uH	11.5uH	12.5uH	
DCR	70mΩ Max	70mΩ Max	70mΩ Max	
REMARK				

8. Material List:

NO.	Part	Material
1	Coil	USTC Wire (0.08mm X 105 Strands)
2	Lead-free tin	Sn99.9%
3	Ferrite	Mn-Zn PC95 (100mm*58mm*1mm)
4	PET	PET
5	Tape	Insulating tapes (yellow)
6	ADHESIVE	Silicone adhesive
7	Tape	3M9448A