

Ciient

Firststar

TYPE

Wireless charging transmitting coil: 8.1 UH

Model NO

G43.5\*5.3\*0.6 double-slot with holes black film with adhesive on both sides and inclined grooves. The total length of the line is 39MM, plus NTC.

Enginrer NO

MC133 model - 190 - 0391 - 0 - 00

Date

June 23, 2025

| For Enginer Departner Only |                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------|
| Rrvised Cintent            | APProved Date                                                                        |
|                            |  |

Prepared

Checked

Approved

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| Authorixed Signaturure Company Chop |             |          |
|-------------------------------------|-------------|----------|
| Enginrer                            | QC APProved | APProved |
|                                     |             |          |

一、 Winding Procese:

| NO | Winding | guage             | umber of windings | direction of winding | Note |
|----|---------|-------------------|-------------------|----------------------|------|
| 1  | N1      | 2UEW-B-0.08*24*2P | 11TS              | CCW                  |      |
| 2  |         |                   |                   |                      |      |

二. FEATURES:

1. Test conditions: 25°C,65%RH@100KHz/1V

1.1 Inductance

1.2 L0A=8.1uH±5%

1.3 Q value= 42 MIN

1.4 DCR: 92 mΩ ±5%

1.5 Operating Temperature: -25°C~85°C

2. Test instrument: **Tong hui TH2830**

3. bill of materials

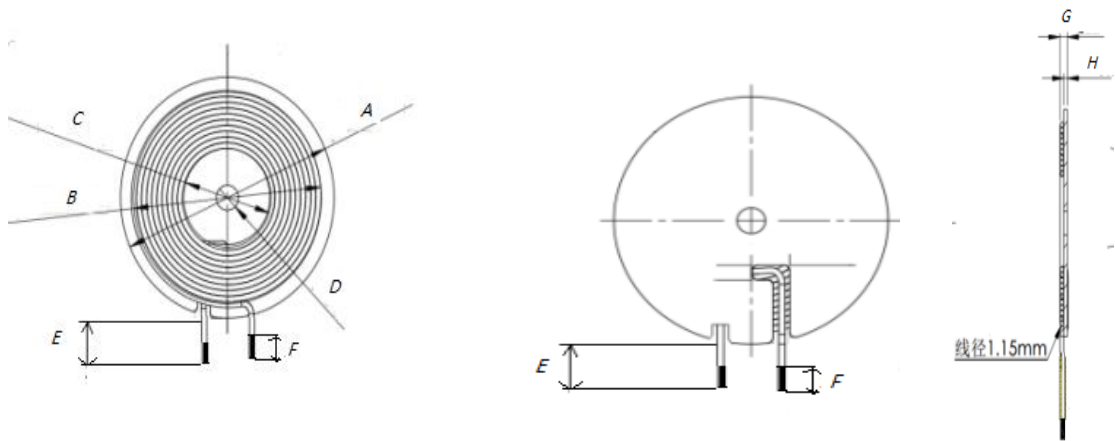
| item                       | materials                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| WIRE                       | φ 0.08*24*2P 2UEW-                                                                                                                |
| FERRITE                    | 43.5 * 5.3 * 0.6 L-shaped double-slot, perforated ferrite hard magnetic, positive black film, double-sided adhesive on both sides |
| GLUE                       | Water-based white glue                                                                                                            |
| SOLDER                     | HQ-996/JS-996                                                                                                                     |
| Tin                        | Kanjiro Pure Tin                                                                                                                  |
| High temperatur e adhesive | Apply 5MM heat-resistant adhesive tape                                                                                            |
|                            | NTC 25@10K ±1% L=80mm 3950K red enamel wire Tin coating length 1-2mm Probe maximum 1.8mm WKT                                      |
|                            |                                                                                                                                   |

三. CIRCUIT DIAGRAM



Unit: MM

四. OUTSIDE DIAGRA



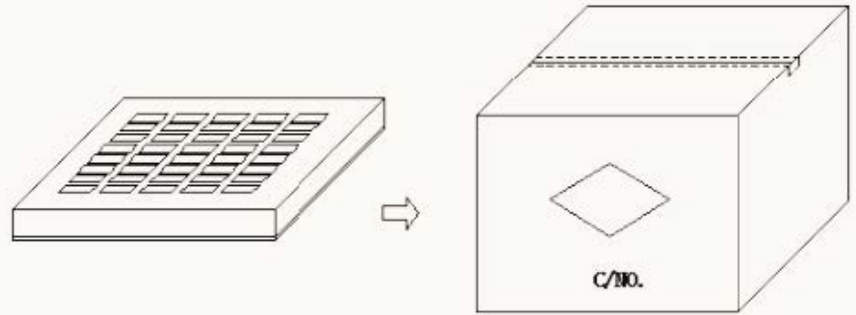
Note: The spacing between the outlet positions is 5mm. Use hot glue tape. The width of the inclined slot outlet is 3-5mm. Add NTC.

|    | A        | B    | C        | D       | E    | F   | G       |
|----|----------|------|----------|---------|------|-----|---------|
| TD | 43.5±0.5 | 39±1 | 20.5±0.5 | 5.3±0.5 | 39±2 | 3±1 | 1.5±0.2 |

Unit: MM

## 五. PACKAGE

### 5.1 Packing pictures:



### 5.2 Packing Quantity:

| Item       | Quantity | Material       |
|------------|----------|----------------|
| Box        | 350 Pcs  | 345*330*50 mm  |
| Big Carton | 1750 Pcs | 360*340*280 mm |

**5.3 The packaging shall be based on the exusting packing plate and the actual delivery package shall prevail .If there is any requirement,we can customize it.**

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## 六、Storage and Use condition

### 6.1 Storage condition

6.1.1 Recommended keeping conditions:  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ , 70%RH (Max.)

6.1.2 Storage life: Within the limits of six months from being produced.

6.2 Use condition: Use condition limit:  $T=-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ ,  $\text{RH} \leq 90\%$ .