

Product Approval Sheet

Custome Dongguan Han Kai Electronics Co., Ltd.

Model H10320

Cust. P/N 101.20.06290

Spec.

Transmitting coil / transmitting coil / DIP / $8.4\mu\text{H} \pm 5\%$ / Dimensions: Outer diameter $D = 43 \pm 1\text{mm}$
aluminum thickness 1mm copper foil + magnetic sheet
Slot thickness 2.3mm (max) / Outgoing wire length $8\text{mm} \pm 1\text{mm}$ / Tin plated $2\text{mm} \pm 1\text{mm}$ / ROHS
2.0 / REACH

Sample Qty 3PCS

Date 2025-1-10

(Inner signatures)

(Customer Signatures)

(Prepared By): Li jingjing

(Precheck By):

(Checked By): Huang liubing

(Checked By):


(Approved By): Wang weizaho


(Approved By):

Dongguan Honour Electronic Co., Ltd.

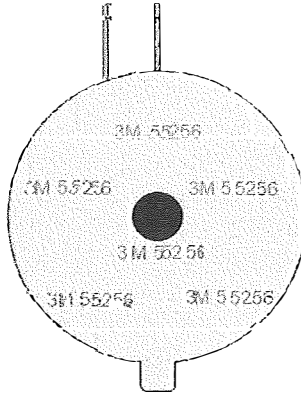
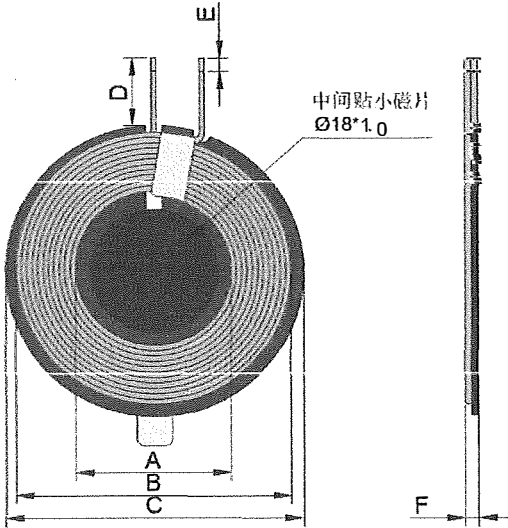
Product type

Wireless Charging
coil

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|---|--|-------------------|--|--------|
|  HONOUR | Product Specification | | Model | H10320 |
| | | | Ver. | A2 |
| | | | Page2/4 | |
| Customer Code | H103 | Product Name | Wireless charging coil 101.20.06290 | |
| Specification | 22*39.3*0.08*65P*11TS+G42.5+G18 | Winding Direction | CCW | |
| Document issue record | | | | |
| Ver. | Modify Desc. | | Issue Date | |
| A0 | new issue | | 2024-11-26 | |
| A1 | @Change the length of the connection line (from the original 12mm to 10mm) @Update the product schematic diagram | | 2025-1-2 | |
| A2 | Change the length of the connecting wire (from the original 10mm to 8mm) | | 2025-1-10 | |
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| | | Prodct Type | Wireless Charging coil | |
| Dong Guan Honour Electronic Co.,Ltd. | | | | |


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|  | Product Specification | | Modell | H10320 |
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一. Product Size (Unit: MM)



| Items | Size | Tol. |
|-------------|-------|--------------|
| A | 21.46 | +1.0 -0.5 |
| B | 39.3 | ±0.5 |
| C | 42.5 | ±0.8 |
| D lead | 8.0 | ±1.0 |
| E | 2.0 | ±1.0 |
| F (不含离形纸厚度) | 2.30 | max |

二. Schematic diagram



三. Winding Specification:

| Wdg Type | Wire | Wire OD | Turns | Layer |
|----------|------|------------------------|-------|-------|
| CCW | S F | 0.08*65Pvarnished wire | 11 | 1 |

四. Electrical Characteristics

| No. | Properties | Test conditions | Value | Unit | Tol. | Tester |
|-----|------------|-----------------|-------|------|------|--------|
| 1 | LS | 100KHZ/1V | 8.4 | μH | ±10% | TH2830 |
| 2 | DCR | @25° C | 70 | mΩ | max | TH2516 |


五. Material list

| NO. | Material | Spec. |
|-----|--|---|
| 1 | Enamel covered twisted wire | 0.08*65P |
| 2 | Ferrite dual straight slot hard magnetic sheet ferrite hard magnetic | 42.5*1.0 |
| 3 | Round sheet single ear double sided adhesive tape | 18*1.0 |
| 4 | high temperature tape | 3M55256 42(±1.0)*7*0.05 5mm |
| 5 | High temperature tin | Width |
| 6 | | Environmental friendly high temperature tin |

Dong Guan Honour Electronic Co.,Ltd.

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Wireless Charging coil

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| Customer Code | H103 | Product Name | Wireless Charging coil 101.20.06290 | |
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六. Reliability Testing

| | | | | | |
|---|--|------------------|--|----------|--------|
| 1 | Temperature and humidity resistance test | test condition | Temperature: $65 \pm 2^{\circ}\text{C}$, Relative Humidity: $93 \pm 2\%\text{RH}$, 24 hours | quantity | Result |
| | | test method | After the experiment, the samples were left at room temperature for a period of time. Their appearance and functions were then inspected. The samples were placed in an environment with a temperature of $65 \pm 2^{\circ}\text{C}$ and a humidity of $93 \pm 2\%\text{RH}$. They were left there for 24 hours. | 2 | Pass |
| 2 | High and low temperature cycling test | test condition | $-40 \pm 2^{\circ}\text{C} / 1\text{H}$, for 1 minute; then raise to $55 \pm 2^{\circ}\text{C} / 1\text{H}$, for a total of 36 cycles; then return to normal temperature for 2 hours. | quantity | Result |
| | | test method | The samples were placed at a base temperature of $-40 \pm 2^{\circ}\text{C}$ per hour and were rotated with in the incubator to a high temperature of $55 \pm 2^{\circ}\text{C}$ per hour. This was repeated as a cycle for 24 cycles (totaling 48 hours). | 2 | Pass |
| 3 | salt spray test | Test conditions: | 5% concentration saline solution, temperature 35 degrees Celsius, spray for 2 hours | quantity | Result |
| | | test method | The sample was placed in the test environment, in a sealed chamber at a temperature of $35 \pm 2^{\circ}\text{C}$, with a humidity of 85%. A $5\% \pm 1\%\text{NaCl}$ solution (with a pH value ranging from 6.5 to 7.2) was used to conduct a continuous salt spray test on the sample for 2 hours. The test was carried out to determine whether the performance was qualified. | 2 | Pass |

七. Operating environment

| | |
|--|--|
| Operating Temperature | -20°C 至 $+85^{\circ}\text{C}$ |
| Storage Temperature | -20°C 至 $+60^{\circ}\text{C}$ |
| Test conditions of Electrical Properties | Temperature : $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ |
| | humidity: $65\% \pm 5\%$ |

八. Inspection standard

During the inspection process, a caliper with an accuracy of no less than 0.02mm is used for inspection by observation or comparison with the sample plate; the inspection method is in accordance with GT/T 2828.1-2012, with an inspection grade of II. CR = 0, MA = 0.25, MI = 0.65

九. Environmental requirements

This product complies with the environmental protection requirements of RoHS and Reach.

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|---|--------------|------------------------|
| Dong Guan Honour Electronic Co.,Ltd. | Product type | Wireless charging coil |
| Address: 5th Floor, Building D4, Huibang Science and Technology Park, No. 4, Hongye Middle Road, Yongtuo Community, Chang'an Town, Dongguan City Http: //www.forewell-tech.com | Ver. | A |

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