

Product Approval Sheet

Customer Dongguan Han Kai Electronics Co., Ltd.

Model H10320

Cust. P/N 101.20.06290

Spec. Transmitting coil transmitting coil / DIP / 8.4uH ± 5% / Dimensions: outer diameter D = 43 ± 1mm[°]
aluminum thickness 1mm[°] copper foil + magnetic sheet
Slot thickness 2.3mm (max) / Outgoing wire length 8mm ± 1mm / Tin plated 2mm ± 1mm / ROHS
2.0 / REACH

Sample Qty 3PCS

Date 2025-1-10

(Inner signatures)

(Prepared By): Li jingjing

(Customer Signatures)

李进军

(Checked By): Huang liubing

(Checked By):

黄立兵 2025-1-10

(Approved By): Wang weizaho

(Approved By):

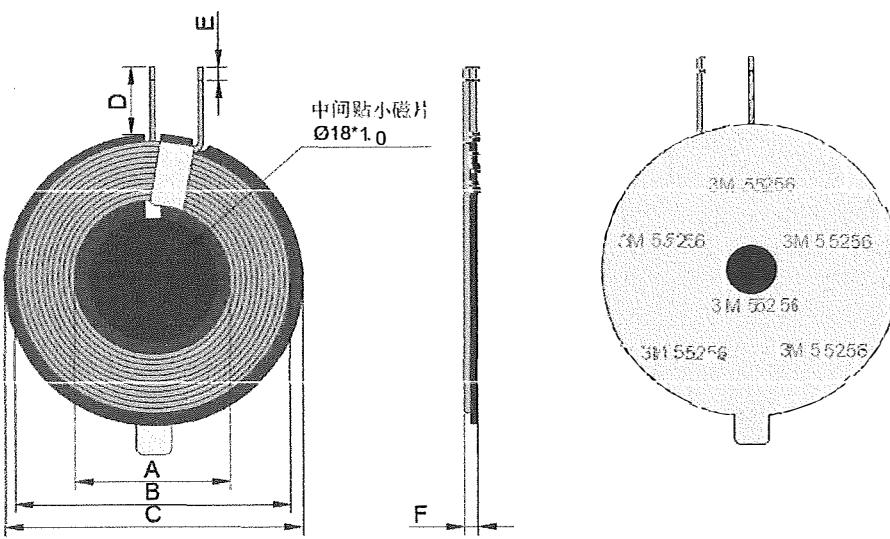
东莞市汉凯电子有限公司
研发部

Dong Guan Honour Electronic Co.,Ltd.

Product type

Wireless Charging
coil

Document Code: HN-ED-007

HONOUR	Product Specification			Modell	H10320			
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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				
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		
Note:								
1、Lead wires cross over each other 2、42.5*1.0 double straightslot magnetic sheet + coil attachment + middle attach 18*1.0 circular sheet + attach 3M55256 self adhesive tape with 3mm height and 9 temperature adhesive tape 3、								
二. Schematic diagram								
								
三. Winding Specification:								
Wdg Type	Wire		Wire OD		Turns	Layer		
CCW	S	F	0.08*65P varnished 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	mA	max	TH2516		
五. Material list								
NO.	Material			Spec.				
1	Enamel covered twisted wire			0.08*65P				
2	Ferrite dual straightslot 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				
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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 $50^\circ \text{C} \pm 2^\circ \text{C} / 1\text{H}$, 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 within the incubator to a high temperature of $50 \pm 2^\circ \text{C}$ 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 $35^\circ \text{C} \pm 2^\circ \text{C}$, with a humidity of 85%. A 5% $\pm 1\%$ 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 °C
Storage Temperature	-20 °C 至 +60 °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.

Dong Guan Honour Electronic Co.,Ltd.	Product type	Wireless charging coil
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