

SPECIFICATION FOR APPROVAL

Customer Admit	Customer	Shenzhen Huisen Technology Co., Ltd
	Cust P/N	B225.QIA11X.010
	Name	TD-G50-F100 Wireless charging single coil component
	Part No	0.08×105P×10Ts, G50×5.3×1.0mm, L-shaped slot, 100mm lead-out wire
	Date	2022/10/21
	Version	V2.1
	Design By	Bing
	Check. By	
	Approve By	

Address: 4 / F, Building 4, Silian Shantang Industrial Zone, Henggang Street, Longgang District, Shenzhen

一、Sample Submission Reason

☒ 1. New SPEC ☐ 2. New Material ☐ 3. ECR ☐ 4. Improve packaging.

二、Request For New SPEC.

[illegible]

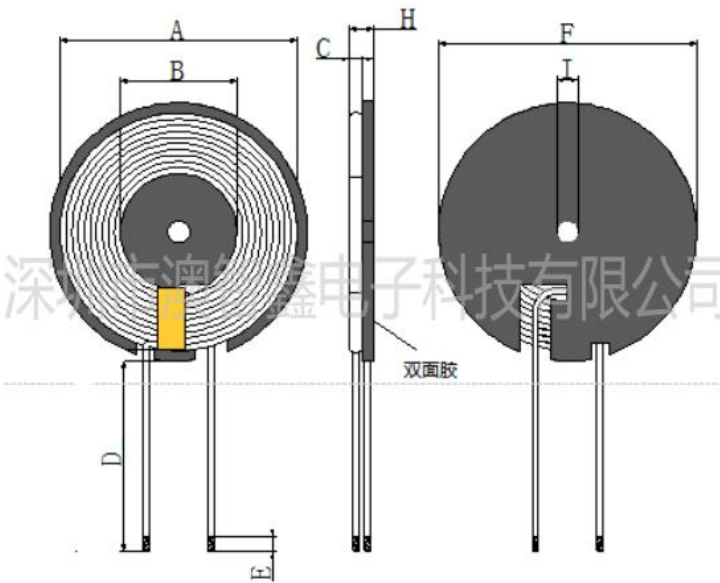
三、Remark:

- 3.1
- Above product comply to li yin Environmental material system requirement.
- 3.2

In Event Of No Sign Back,We Will Under Take P.O. As Acceptance To Sample Approval!

四、Product Specification

4.1 (Unit: mm)

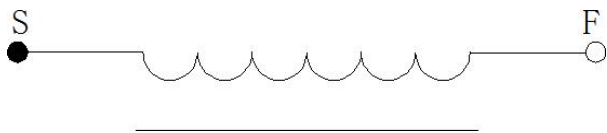


A	43.0±0.8
B	20.5±0.5
C	1.2±0.5
D	100±3.0
E	3.0±2.0
F	50±0.6
H	2.7Max
I	5.3ref

Notes:

1. Single coil for silk-covered wire;
2. Wrap 5-8mm (width) of polyimide tape 1.5Ts around the outlet position;
3. The coil body should not be loose and there should be no gap larger than 1/3 of the wire diameter;
4. The coil should be adhered to the exact center of the magnetic sheet;
5. Adhere ordinary white double-sided tape to the back of the magnetic sheet;
6. The surface of the magnetic sheet should be shiny, with uniform color, and there should be no dust or magnetic powder that affects the film application or adhesive.

4.2 SCHEMATIC DIAGRAM:



4.3 绕线参数 /Winding Specification:

NO.	TERMINAL		WIRE	Turns	Winding Direction
1	S	F	wire0.08*105P	10Ts	CCW

4.4ELECTRICAL CHARACTERISTICS:

TEMPERATURE:25±10° C, RELATIVE HUMIDITY:65±20%

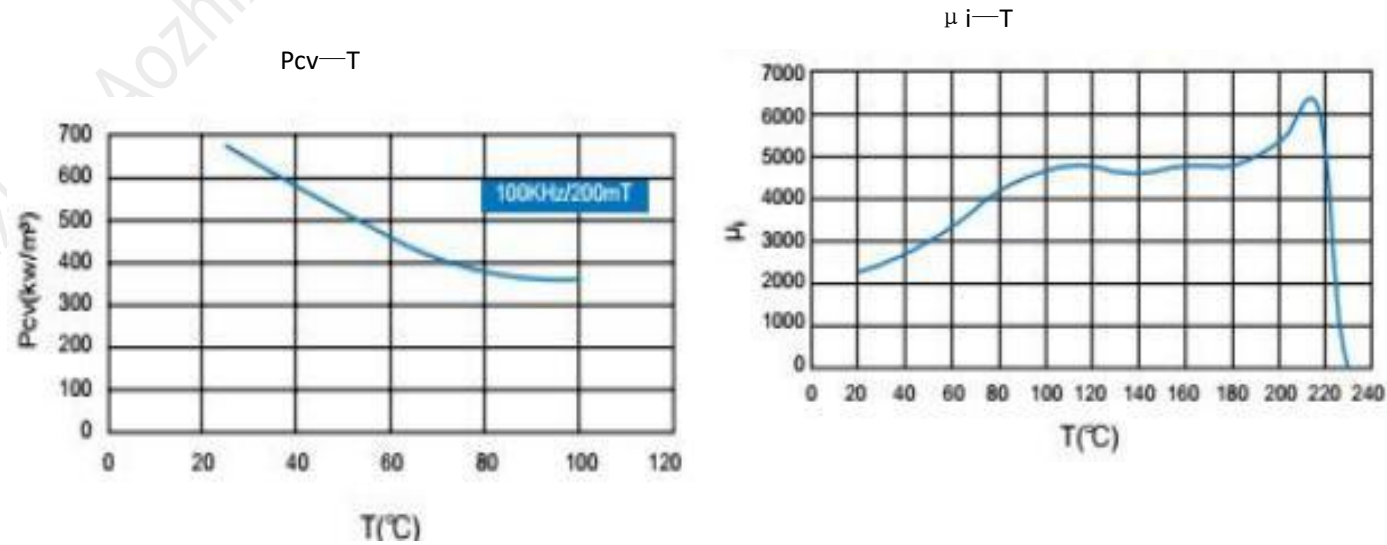
NO.	ITEM	TERMINAL	SPECIFICATION	TEST FREQUENCY	TESTEQUIPMENTS
1	LS	S-F	6.5uH±10%	100KHz/1.0V	TH2830
2	DCR	S-F	43mΩ 10%		ZX5512B

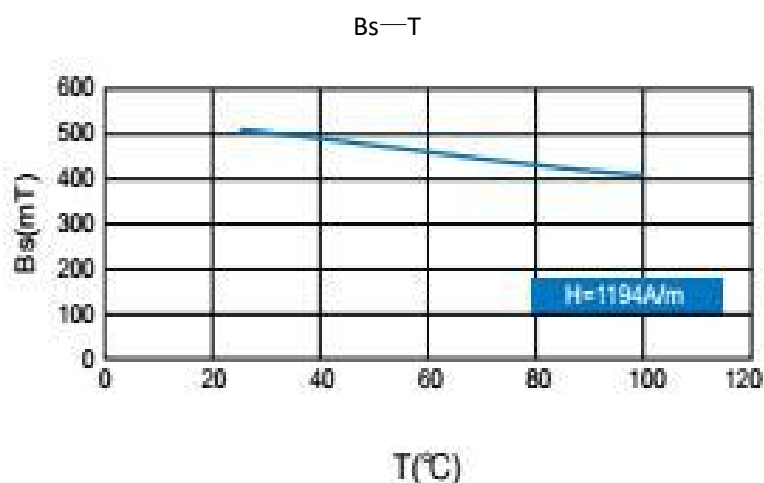
五： Material Characteristics: (Appendix)

5.1 MAIN PARAMETERS

NO	Parameters	Code name	Organization	Test conditions	BP40
1	Initial penrmeability	Ui	\	25℃	2300±25 %
2	Saturation flux density	Bs	mT	H=1194A/m	25℃ 100℃
					510 390
3	Pcv Power Loss	Pc	Kw/m³	25℃,100kHz,200mT	650
				100℃,100kHz,200mT	450
4	Curie temperature	Tc	℃		≥215
5	Density	d	Kg/m³		4.8×10³

5.2 Material Characteristics Curve





5.3 Appearance Size :AQL= 1.0/ Electrical performance (L) :AQL=0.65

- ① Cleaning: the surface of the magnetic disc luster, uniform color, smooth, no obvious loose phenomenon. The surface of the magnetic disc shall not have dust or magnetic powder that affects the film or glue Present.
- ② magnetic disc block, damage: the allowable standard for each damage is length $\leq 5\text{mm}$, width $\leq 1.0\text{mm}$, depth $\leq 0.5\text{mm}$, and the interval between each two damage places is 1mm
The determination of the inside is a damage, and each product is allowed to accept 3 damages within this standard.
- ③ Crack: The magnetic core is only allowed to exist two long less than 5mm, width less than 0.5mm of the non-obvious crack exists, is not allowed to affect the magnetic core electromagnetic performance and Mechanical strength cracks and lamination.
- ④ Yin and Yang surface: the size is not inspected within the tolerance range.
- ⑤ Crystal spot, bright spot: grinding surface crystallization $\leq 2\text{m}$, the number of single sides $< 3\text{m}^2$
- ⑥ Surface flatness: the surface allows concave and convex depth $\leq 0.08\text{mm}$ (in principle, it is not allowed to have obvious line marks).
- ⑦ Mechanical strength: $\geq 1\text{kg}$ (Instrument: DSZ-500N pressure gauge)