

## Specification for Approval

Customer: \_\_\_\_\_

Customer Part No.: PS168(5K) \_\_\_\_\_

Supplier: Fuda Semiconductor (Hefei) Co., LTD \_\_\_\_\_

Spec description: 42.9\*5.2\*0.5/20\*10\*0.7 0.08\*65 11TS 8.1uH L=38.5 \_\_\_\_\_

Supplier Part No.: J-FDPS1685K \_\_\_\_\_

Date: 2025/4/11 \_\_\_\_\_

Version: A.0 \_\_\_\_\_

Draw: \_\_\_\_\_

Supplier Approve		Customer Approve
EE Confirm by	PE Confirm by	
QE Confirm by	Approval by	

### Version Change History

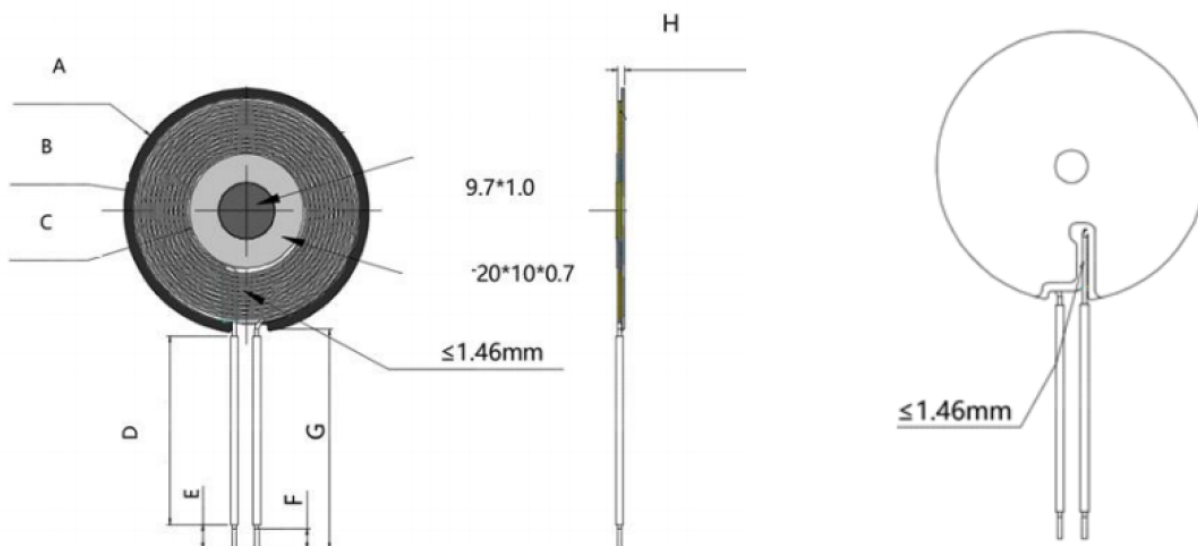
Revision	Before change	After change	Date	Approval by
A.0	—	(Initial Release)	2025/4/11	

## 1. Manufacturer information

Items	Manufacturer name	Approval
The first resource	吉欧	罗杰
The second resource		

## 2. Dimension specification

Unit: mm



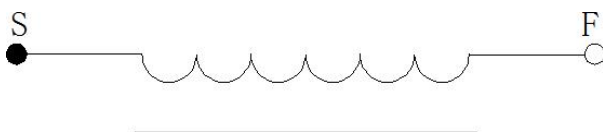
(Unit):(mm)

A	B	C	D	E	F	G	H
42.9±0.5	39.6 <sup>+0.3</sup> <sub>-1.5</sub>	20.4±0.1	33 <sup>+3</sup> <sub>-1</sub>	(4.23±2)	3.5±1	38.5±1	1.3 <sup>+0.06</sup> <sub>-0.15</sub>

Note:

1. The coil leads are laid out parallelly. A heat shrink tube is placed over them. The inner leads need to be heat-pressed and shaped.
2. The magnetic shielding sheet is attached to the black film, and the coil is attached to the black film surface.
3. The specifications of the large magnetic separator are:  $\Phi 42.9 * 5.0 * 0.5$  with slots; the specifications of the small magnetic separator are:  $\Phi 20 * 10 * 0.7$ .
4. The middle hole of the small magnetic spacer is covered with black foam adhesive tape on one side. The specification is:  $9.7 * 1.0$ .

### 3.Schematic diagram



## 4. Electronic character

TEMPERATURE:  $25 \pm 10^{\circ}\text{C}$ , RELATIVE HUMIDITY :  $65 \pm 20\%$

TIEM	SPECIFICATION	TEST FREQUENCY	TEST EQUIPMENTS
IND	$8.1\text{UH} \pm 5\%$	100 KHZ/1.0V	LCRMETRTH2830N
DCR	75mΩ Max	\	PH2511S
Q	63 Min	100 KHZ/1.0V	LCRMETRTH2830N
Operating Temperature and Humidity		$-30^{\circ}\text{C} \sim 80^{\circ}\text{C}$ / 30%~90%	
Storage Temperature and Humidity		$-40^{\circ}\text{C} \sim 90^{\circ}\text{C}$ / 30%~90%	

## 5. Coil specification

Turns	Wire Dia.	Wdg. Type Spred/Close	Wdg.Direction	Intersect Yes/Not	Coil Positive/Anti Paste
11T S	0.08*65P ( Hot- Wire)	(Close)	(Anticlockwise)	(Yes)	(Anti/-Paste)

## 6. Bill of materials

number	Material name	Description	Material Code
1	Cable	0.08*65P	
2	Magnetic shielding sheet	$\Phi 42.9 \times 5.0 \times 0.5\text{H}$ $\Phi 20 \times 10 \times 0.7\text{H}$	

3	Adhesive	CX-3001A White glue	
4	Foam adhesive	9.7*1.0 Single-sided adhesive coating	
5	Double-sided adhesive tape	Cotton fabric $\Phi 18*11$ T=0.1	
6	Heat shrink tubing	Black $\Phi 1.2*33$	