

Coil specification

一、 DIMENSION:(mm)

The image shows a technical drawing of a coil. The top view (left) is a circle with a central hole, surrounded by concentric circles representing the coil turns. Dimensions are labeled: 'A' for the height of the coil, 'B' for the width of the lead, 'C' for the inner diameter of the coil, 'D' for the outer diameter of the coil, and 'E' for the total width of the coil. The side view (right) shows the coil's profile, with dimension 'H' indicating the thickness of the magnetic sheet.

A	16±2
B	3±2
C	20.5±0.5
D	42.5±1
E	49.5±0.5
H	2.5±0.3

NOTE :

- 1 . Intersection line ;
2. The lead position is wrapped with 9mm (ref) width and height Temperature adhesive paper 1-2Ts;
3. The coil is attached with a round hard magnetic sheet with a groove, magnetic sheet size 49.5±0.5mm, inner hole 5.3mm, with a thickness of 1.0±0.2mm.

二、 SCHEMATIC DIAGRAM:

The schematic diagram shows a coil represented by a series of connected semi-circles. The left terminal is labeled 'S' and the right terminal is labeled 'F'.

三、 Winding Specification:

NO.	TERMINAL		WIRE	Turns	Winding Direction
1	S	F	Silk-covered wire 0.08*105P	10Ts	CCW

4 . ELECTRICAL CHARACTERISTICS:

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

NO.	ITEM	TERMINAL	SPECIFICATION	TEST FREQUENCY	TEST EQUIPMENTS
1	IND.	S-F	3.8uH±20%Single Line Circle	100KHz/1.0V	LCZ METER 1062B
2	IND.	S-F	6.3uH ±10% Magnetized sheet	100KHz/1.0V	LCZ METER 1062B
3	DCR	S-F	≤53m Ω	100KHz/1.0V	LCZ METER 502B
4	QValue	S-F	≥75	100KHz/1.0V	LCZ METER 502B

Electrical characteristics

Temperature:20 ±10°C, Humidity:65±20%

Coil Specification

Summary

ITEM	Coil				
Model Name	TB1205QI-V5 PCBA-COIL				
Winding Specification:	TERMINAL		Wire	Turns	Winding Direction
	S	F	Silk-covered wire 0.08*105P	10Ts	CCW
Electrical Characteristics	ITEM	TERMINAL	SPECIFICATION	TEST FREQUENCY	TEST EQUIPMENTS
	IND.	S-F	3.8uH±20%Single Line Circle	100KHz/1.0V	LCZMETER1062B
	IND.	S-F	6.3uH±10% Magnetized sheet	100KHz/1.0V	LCZMETER1062B
	DCR	S-F	≤53mΩ	100KHz/1.0V	LCZMETER502B
	QValue	S-F	≥75	100KHz/1.0V	LCZMETER502B
Electrical Characteristics	TEMPERATURE:25±10℃, RELATIVE HUMIDITY:65±20%				
Manufacturer	Shenzhen OJD Technology Co., Ltd.				
Basic Parameter	1.Input Voltage/Current:DC-5V ±0.5V 500mA-2A; DC-12V600mA 2.Output Voltage/Current: 5V/1A 3.The Surface Temperature:50℃ ±5℃ 4.Working Temperature:-20℃-60℃ 5.Operation Frequency:112KHz-205KHz 6.Charging Distance:<=8mm 7.Efficiency:>=70%e 8.Relative Humidity:10%-80%				