

**SPECIFICATION FOR APPROVAL**

(CUSTOMER) Shenzhen Tengsai Technology Co., Ltd

(CUSTOMER P/N) : T15

(DESCRIPTION) : DATE:2023-9-11

(SPECIFICATION) : G43.5 slotting+adhesive backing 140mm7.2uH REV.NO.:A0

Hongri Shengwei Technology acknowledges, signs and seals

| Department  | Confirmation/Date                 | Review/Date                     | Approved/date                   | (Stamped with the company seal)                                                       |
|-------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------------------------------------------------------------|
| Quality     | Dong Wanhong <sub>2023-9-11</sub> | Lv Hui <sub>2023-9-11</sub>     | Wei Hanman <sub>2023-9-11</sub> |  |
| Engineering | He Weihua <sub>2023-9-11</sub>    | Wei Lihong <sub>2023-9-11</sub> | Wei Lihong <sub>2023-9-11</sub> |                                                                                       |

Notes

Hongri Shengwei Technology acknowledges, signs and seals

| Department  | Confirmation/Date | Review/Date | Approved/date | (Stamped with the company seal) |
|-------------|-------------------|-------------|---------------|---------------------------------|
| Engineering |                   |             |               |                                 |
| Procure     |                   |             |               |                                 |
| Quality     |                   |             |               |                                 |

Notes

**HRSW ELECTRONICS CO.,LTD**

**ADD:** 2nd Floor, Building 1, No. 48 Guanlan Huanguan

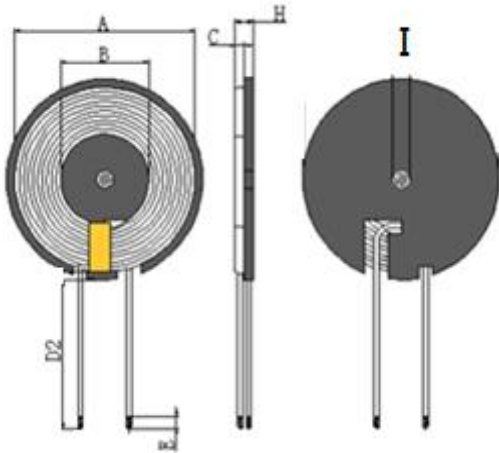
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# SPECIFICATION FOR APPROVAL

## 1.MECHANICAL DIMENSION (UNIT:mm)



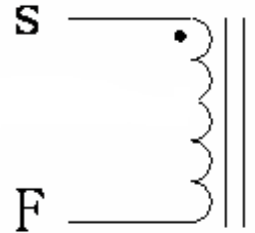
## 2. SCHEMATICS:

1. Coil mounting magnetic sheet, magnetic sheet size  $43.5 \pm 1\text{mm}$ ,  
Open the L slot.

2. Coil outlet position  
Wrap adhesive paper  
1-2Ts;

3. The bottom of the magnetic separator should be pasted with adhesive backing

4. The lead needs to be marked with ink



| A              | B            | C             | D2          | E         | H      | I           |  |  | I |
|----------------|--------------|---------------|-------------|-----------|--------|-------------|--|--|---|
| $43.5 \pm 1.0$ | $16 \pm 1.5$ | $0.8 \pm 0.1$ | $140 \pm 3$ | $4 \pm 2$ | 2.8MAX | $5 \pm 0.5$ |  |  |   |

## 3.WINDING:

| STEP | START-FINISH | WIRE TYPE                                              | TURNS      | TAPE | REMARK |
|------|--------------|--------------------------------------------------------|------------|------|--------|
| N1   | S-F          | silk covered wire $\phi 0.08 \times 105\text{mm}$ 2UEW | 12TS (Ref) |      |        |

## 4. ELECTRICAL SPECIFICATION:

| ITEM | L                         | DCR       |  | Q value | HI-POT |
|------|---------------------------|-----------|--|---------|--------|
| TEST | Coil and magnetic plate   | S-F       |  |         |        |
| CON  | 100KHz, 0.25V             | AT 25°C   |  |         |        |
| SPEC | $7.2\mu\text{H} \pm 10\%$ | 100mΩ Max |  |         |        |

## 5.BILF OF MATERIAL:

| NO. | ITEM                            | MATERIAL SPECIFICATION                                                | MANUFACTURER         | SGS NO. |
|-----|---------------------------------|-----------------------------------------------------------------------|----------------------|---------|
| 1   | 0.08 * 105 strands of silk wire | Acetone silk wrap $0.08 \times 105$                                   | NANJINGJINNINGCO,LTD |         |
| 2   | Solder Bar                      | Solder Bar                                                            | QIAODO               |         |
| 3   | Magnetic sheet                  | $\phi 43.5 \times 0.8$ Manganese zinc hard magnetic sheet with L-slot | TAIYI CO.,LTD        |         |
| 4   | glue                            | Yellow Glue 9999                                                      | LIANCHENG CO.,LTD    |         |
| 5   | High-temperature adhesive paper | 7mm Wide high-temperature adhesive paper                              | CUDAK CO.,LTD        |         |
| 6   | Adhesive backing                | $\phi 41.5 \times 0.1$                                                | CUDAK CO.,LTD        |         |

|                          |            |         |                                               |
|--------------------------|------------|---------|-----------------------------------------------|
| HRSW ELECTRONICS CO.,LTD |            | PART NO |                                               |
|                          |            | TITLE   | G43.5Slotting+adhesive backing<br>140mm 7.2uH |
| DRAWN BY                 | CHECKED BY |         | APPROVED BY                                   |
| He Weihua                | Wei Lihong |         | Wei Lihong                                    |

# SPECIFICATION FOR APPROVAL

| 6. SAMPLE TEST DATA          |              |        |            |        |         |        |                                           |  |  |
|------------------------------|--------------|--------|------------|--------|---------|--------|-------------------------------------------|--|--|
| 6. 1DIMENSION TEST (UNIT:mm) |              |        |            |        |         |        |                                           |  |  |
| TEST ITEM                    | A            | B      | C          | D      | E       | H      | I                                         |  |  |
| SPEC                         | 43.5±1.0     | 16±1.5 | 0.8±0.1    | 140±3  | 4±2     | 2.8MAX | 5±0.5                                     |  |  |
| 1                            | 43.38        | 16     | 0.76       | 142    | 3.50    | 2.35   | 5.03                                      |  |  |
| 2                            | 43.51        | 15.9   | 0.78       | 139    | 3.60    | 2.34   | 5.02                                      |  |  |
| 3                            | 43.42        | 16.2   | 0.76       | 140    | 3.70    | 2.41   | 4.99                                      |  |  |
| 4                            | 43.62        | 15.8   | 0.86       | 141    | 3.80    | 2.38   | 5.01                                      |  |  |
| 5                            | 43.97        | 16.05  | 0.83       | 139    | 4.00    | 2.45   | 5                                         |  |  |
| 6                            |              |        |            |        |         |        |                                           |  |  |
| 7                            |              |        |            |        |         |        |                                           |  |  |
| 8                            |              |        |            |        |         |        |                                           |  |  |
| 9                            |              |        |            |        |         |        |                                           |  |  |
| 10                           |              |        |            |        |         |        |                                           |  |  |
| MAX                          | 43.97        | 16.20  | 0.86       | 142.00 | 4.00    | 2.45   | 5.03                                      |  |  |
| MIN                          | 43.38        | 15.80  | 0.76       | 139.00 | 3.50    | 2.34   | 4.99                                      |  |  |
| AVERAGE                      | 43.58        | 15.99  | 0.80       | 140.20 | 3.72    | 2.39   | 5.01                                      |  |  |
| 6. 2ELECTRICAL TEST          |              |        |            |        |         |        |                                           |  |  |
| TEST ITEM                    | L            |        | DCR        | IDC    |         | Q      | HI-POT                                    |  |  |
|                              | S-F          |        | S-F        |        |         |        |                                           |  |  |
| TEST COND                    | 100KHz/0.25v |        | AT 25℃     |        |         |        |                                           |  |  |
| SPEC                         | 7.2uH±10%    |        | 100mΩ(Max) |        |         |        |                                           |  |  |
| 1                            | 7.21         |        | 58.00      |        |         |        |                                           |  |  |
| 2                            | 7.20         |        | 59.00      |        |         |        |                                           |  |  |
| 3                            | 7.19         |        | 58.60      |        |         |        |                                           |  |  |
| 4                            | 7.23         |        | 57.20      |        |         |        |                                           |  |  |
| 5                            | 7.25         |        | 58.90      |        |         |        |                                           |  |  |
| 6                            |              |        |            |        |         |        |                                           |  |  |
| 7                            |              |        |            |        |         |        |                                           |  |  |
| 8                            |              |        |            |        |         |        |                                           |  |  |
| 9                            |              |        |            |        |         |        |                                           |  |  |
| 10                           |              |        |            |        |         |        |                                           |  |  |
| MAX                          | 7.25         |        | 59.00      |        |         |        |                                           |  |  |
| MIN                          | 7.19         |        | 57.20      |        |         |        |                                           |  |  |
| AVERAGE                      | 7.22         |        | 58.34      |        |         |        |                                           |  |  |
| HRSW ELECTRONICS CO.,LTD     |              |        |            |        | PART NO |        | G43.5Slotting+adhesive backing 140mm7.2uH |  |  |
|                              |              |        |            |        | TITLE   |        |                                           |  |  |
| DRAWN BY                     |              |        | CHECKED BY |        |         |        | APPROVED BY                               |  |  |
| He Weihua                    |              |        | Wei Lihong |        |         |        | Wei Lihong                                |  |  |