

## Specification for Approval

Customer: \_\_\_\_\_  
Customer Part No.: \_\_\_\_\_  
Supplier: Fudao Semiconductor (Hefei) Co., Ltd.  
Spec description: Nu227 coil / Ferrite (PC40) + coil (hot air line, 0.08\*65P\*11T, Ls = 8.1uH, lead length 8mm)  
Supplier Part No.: Nu227MPPCOIL  
Date: 2024/9/13  
Version: A.0  
Draw: \_\_\_\_\_

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

Add: No. 01, 5th Floor, Building B4, Zhong'an Chuanggu Science and Technology Park, No. 900,  
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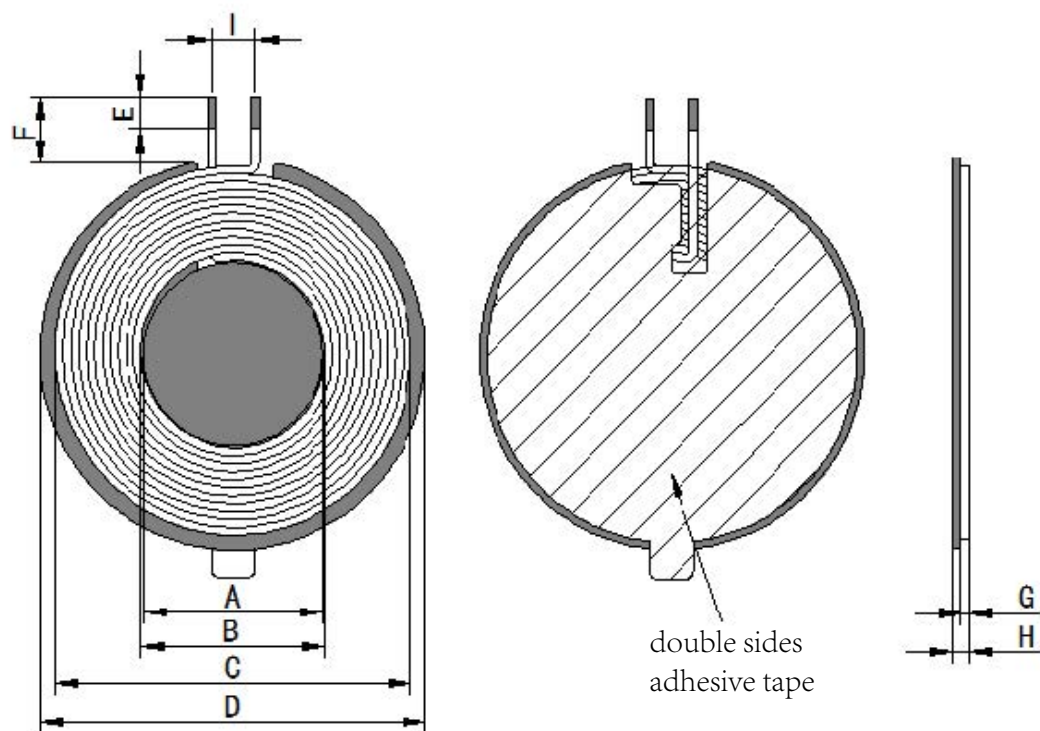
## Version Change History

[illegible]

## 1. Manufacturer information

| Items               | Manufacturer name | Approval |
|---------------------|-------------------|----------|
| The first resource  | Geo               |          |
| The second resource |                   |          |

## 2. Dimension specification



Unit(mm):

| A                              | B        | C             | D        | E          | F     |
|--------------------------------|----------|---------------|----------|------------|-------|
| 20+0.25/-1.2                   | 20.5±0.5 | 39.6+0.3/-1.5 | 42.9±0.5 | 3+0.5/-1.5 | 7.3±1 |
| G                              | H        | I             |          |            |       |
| 0.95±0.05                      | 2.3MAX   | 5±1.5         |          |            |       |
| PS: (H) Without release paper; |          |               |          |            |       |

### 3. Schematic diagram



### 4. Electronic character

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

| TIEM | SPECIFICATION | TEST FREQUENCY | TEST EQUIPMENTS |
|------|---------------|----------------|-----------------|
| IND  | 8.1UH±5%      | 100 KHZ/1.0V   | HY23830         |
| DCR  | 65 mΩ MAX     | \              | HY23830         |
| Q 值  | 75 min        | 100 KHZ/1.0V   | HY23830         |

|                                     |                      |
|-------------------------------------|----------------------|
| Operating Temperature and Humindity | -30°C~80°C / 30%~90% |
| Storage Temperature and Humindity   | -40°C~90°C / 30%~90% |

## 5. Coil specification

| Turns | Wire Dia.                   | Wdg. Type<br>Spred/Close | Wdg.Direction   | Intersect<br>Yes/Not | Coil<br>Positive/Anti<br>Paste |
|-------|-----------------------------|--------------------------|-----------------|----------------------|--------------------------------|
| 11TS  | 0.08*65P<br>(Stranded wire) | (Close)                  | (Anticlockwise) | (Yes)                | (Anti/-Paste)                  |

## 6. Bill of Materials

| Material name                       | Description                                                        | Material Code |
|-------------------------------------|--------------------------------------------------------------------|---------------|
| wire rod                            | 0.08 * 65P hot air twisted wire                                    | JX-2U-F-0025  |
| ferrite                             | 42.9 ± 0.5 * 5.2 ± 0.5 * 1.0 ± 0.05H<br>(With holes and slots)     | GCP-T-00292   |
| Circular hard magnetic material     | 20 * 1.0H (No holes, no grooves)                                   | GCP-T-00264   |
| Circular double-sided adhesive tape | 41.3 * 0.05H (Single-sided self-adhesive without holes or grooves) | SMJ-T-0078    |

|                                             |                                                        |                                              |
|---------------------------------------------|--------------------------------------------------------|----------------------------------------------|
| Round regular<br>double-sided adhesive tape | 18 * 0.08H (hand-tearable without<br>holes or grooves) | SMJ-T-0010                                   |
| glue                                        | JS-E7202 (Thickened) White<br>Adhesive                 | E7202W                                       |
| tin bar                                     | Environmentally friendly lead-free<br>solder wire      | Lead-free<br>high-temperature<br>solder wire |

## 7. Precautions for production

1. The lead ends must not have burrs, frays or any other appearance defects.
2. The gap between the coil and the ferrite must not be greater than 0.5mm.
3. The winding method of the coil must be made according to the winding direction specified in the specification.
4. The width of the yellow high-temperature insulating tape must be strictly made in accordance with the specification.
5. No solder beads should appear on the surface of the coil. It is recommended that the tin-plating process does not use flux.
6. No loose parts or irregular arrangement of some copper wires should be present on the surface of the coil.