



# 承認書

## SPECIFICATION FOR APPROVAL

CUSTOMER:

DESCRIPTION:

WIRE WOUND CHIP INDUCTOR

PART NO:

MWI1008PS系列

CUST. PART NO:

REV. NO.

A0

| DRAWING  |          |          |
|----------|----------|----------|
| PREPARED | CHECKED  | APPROVED |
| 邹声平      | 卢嘉良      | 曾凡强      |
| DATE:    | 2025/5/5 |          |

| CUSTOMER APPROVE |
|------------------|
|                  |

**DDY® 德立电子&铭易轩**

**东莞市铭易轩电子科技有限公司**

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## MODIFY RECORD 变更履历

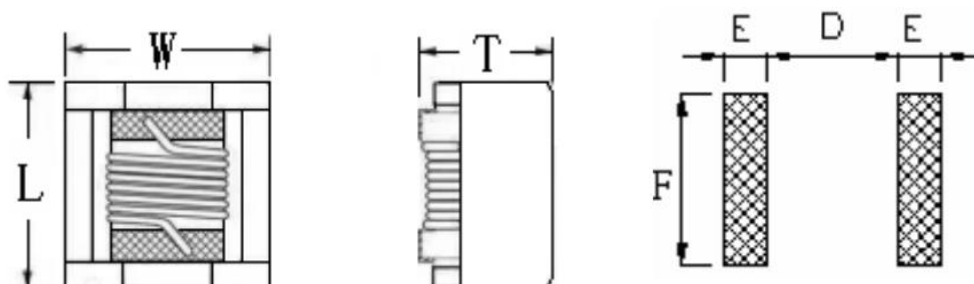
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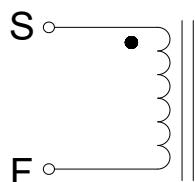
### 1. SHAPE & DIMENSION (UNIT:mm)



Recommended patterns

| L         | W         | T         | E         | F         | D         |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.81 Max. | 3.81 Max. | 2.74 Max. | 1.02 Typ. | 2.54 Typ. | 1.27 Typ. |

### 2. SCHEMATIC



### 3. PART NUMBERING SYSTEM

|     |      |    |     |   |   |   |   |    |
|-----|------|----|-----|---|---|---|---|----|
| MWI | 1008 | PS | 1R0 | M | S | T | - | LF |
| 1   | 2    | 3  | 4   | 5 | 6 | 7 |   | 8  |

1 PRODUCT SYMBOL (产品代号)

2 DIMENSIONS (规格尺寸)

3 MATERIAL (芯片类型)

4 INDUCTANCE (电感量)

5 TOLERANCE (公差) : M±20%

6 TERMINAL (端电极材料) : S-锡端头;

7 PACKAGING (包装方式) : T-编带盘装; B-散装

8 E.P. (环保) : LF—Lead Free HF—Halogen Free FP—Red Phosphor Free

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### 4. ELECTRICAL CHARACTERISTICS

| No. | Part Number        | L          | Freq    | Q@1MHz | SRF       | Rdc               | Isat    |
|-----|--------------------|------------|---------|--------|-----------|-------------------|---------|
|     |                    | ( $\mu$ H) | (KHz/V) | Min.   | (MHz)Min. | ( $\Omega$ ) Max. | (A)Max. |
| 1   | MWI1008PS1R0MST-HF | 1          | 100/0.1 | 22     | 254       | 0.06              | 3.00    |
| 2   | MWI1008PS1R5MST-HF | 1.5        | 100/0.1 | 22     | 220       | 0.10              | 2.50    |
| 3   | MWI1008PS2R2MST-HF | 2.2        | 100/0.1 | 25     | 200       | 0.12              | 2.40    |
| 4   | MWI1008PS2R7MST-HF | 2.7        | 100/0.1 | 22     | 150       | 0.22              | 1.70    |
| 5   | MWI1008PS3R3MST-HF | 3.3        | 100/0.1 | 25     | 150       | 0.35              | 1.50    |
| 6   | MWI1008PS3R9MST-HF | 3.9        | 100/0.1 | 22     | 150       | 0.30              | 1.50    |
| 7   | MWI1008PS4R7MST-HF | 4.7        | 100/0.1 | 22     | 120       | 0.35              | 1.20    |
| 8   | MWI1008PS5R6MST-HF | 5.6        | 100/0.1 | 25     | 100       | 0.36              | 1.30    |
| 9   | MWI1008PS6R8MST-HF | 6.8        | 100/0.1 | 25     | 100       | 0.58              | 1.30    |
| 10  | MWI1008PS100MST-HF | 10         | 100/0.1 | 25     | 105       | 0.92              | 0.84    |
| 11  | MWI1008PS150MST-HF | 15         | 100/0.1 | 25     | 35        | 1.15              | 0.81    |
| 12  | MWI1008PS220MST-HF | 22         | 100/0.1 | 25     | 25        | 1.40              | 0.67    |
| 13  | MWI1008PS330MST-HF | 33         | 100/0.1 | 25     | 20        | 1.61              | 0.53    |
| 14  | MWI1008PS390MST-HF | 39         | 100/0.1 | 25     | 16        | 1.85              | 0.49    |
| 15  | MWI1008PS470MST-HF | 47         | 100/0.1 | 25     | 19        | 2.50              | 0.47    |
| 16  | MWI1008PS680MST-HF | 68         | 100/0.1 | 25     | 12        | 3.80              | 0.42    |
| 17  | MWI1008PS820MST-HF | 82         | 100/0.1 | 25     | 9         | 4.30              | 0.33    |
| 18  | MWI1008PS101MST-HF | 100        | 100/0.1 | 25     | 7         | 6.50              | 0.35    |
| 19  | MWI1008PS121MST-HF | 120        | 100/0.1 | 25     | 7         | 7.00              | 0.30    |
| 20  | MWI1008PS151MST-HF | 150        | 100/0.1 | 25     | 5         | 7.50              | 0.27    |
| 21  | MWI1008PS221MST-HF | 220        | 100/0.1 | 25     | 4         | 10.00             | 0.21    |
| 22  | MWI1008PS331MST-HF | 330        | 100/0.1 | 25     | 3         | 11.50             | 0.19    |

产品公差:  $M \pm 20\%$

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### 4. ELECTRICAL CHARACTERISTICS

| No. | Part Number         | L          | Freq    | Q@1MHz | SRF       | Rdc               | Isat    |
|-----|---------------------|------------|---------|--------|-----------|-------------------|---------|
|     |                     | ( $\mu$ H) | (KHz/V) | (Typ.) | (MHz)Min. | ( $\Omega$ ) Max. | (A)Max. |
| 23  | MWII1008PS471MST-HF | 470        | 100/0.1 | 23     | 3         | 16.3              | 0.14    |
| 24  | MWII1008PS681MST-HF | 680        | 100/0.1 | 18     | 2         | 24.0              | 0.11    |
| 25  | MWII1008PS821MST-HF | 820        | 100/0.1 | 18     | 2         | 26.0              | 0.10    |
| 26  | MWII1008PS102MST-HF | 1000       | 100/0.1 | 18     | 2         | 29.0              | 0.11    |

产品公差: M $\pm$ 20%

#### Test remarks

- (1).All test data is referenced to 25 °C ambient.
- (2). Isat: DC current at which inductance drops approximate 30% from its value without current,

### 5. GENERAL SPECIFICATION

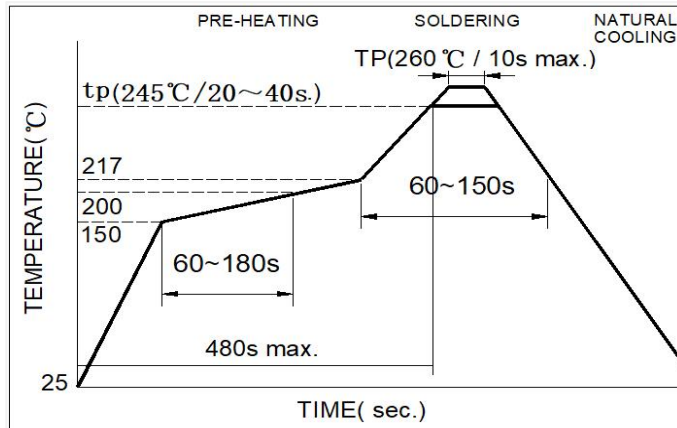
- (1). Operating temp.: -40°C ~ + 85°C (Including self-generated heat).
- (2). Storage temp.: -10°C ~ +40°C R.H.:60% Max.
- (3). Moisture sensitivity level (MSL) 1
- (4). Recommended products should be used within 12 months from the date of delivery
- (5). The part temperature (ambient + temp rise) should not exceed 85 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

|          |         |          |
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## 6. SOLDERING CONDITIONS

**Figure 1. Re-flow Soldering (Lead Free)**



Note:

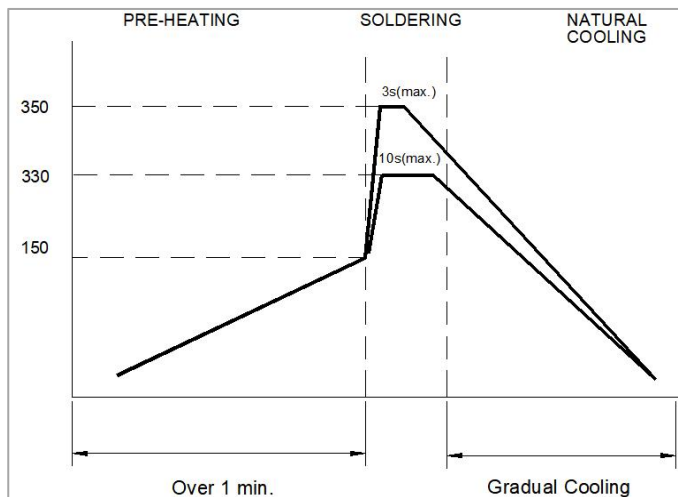
Preheat circuit and products to 150°C

260°C tip temperature (Max)

Reflow times: no more than 2 times

Solder paste thickness: the best 0.08mm is ,but max is 0.1mm

**Figure 2. Hand Soldering**



Note:

Use a 20 watt soldering iron with tip diameter of 1.0mm

Limit soldering time to 3 sec.

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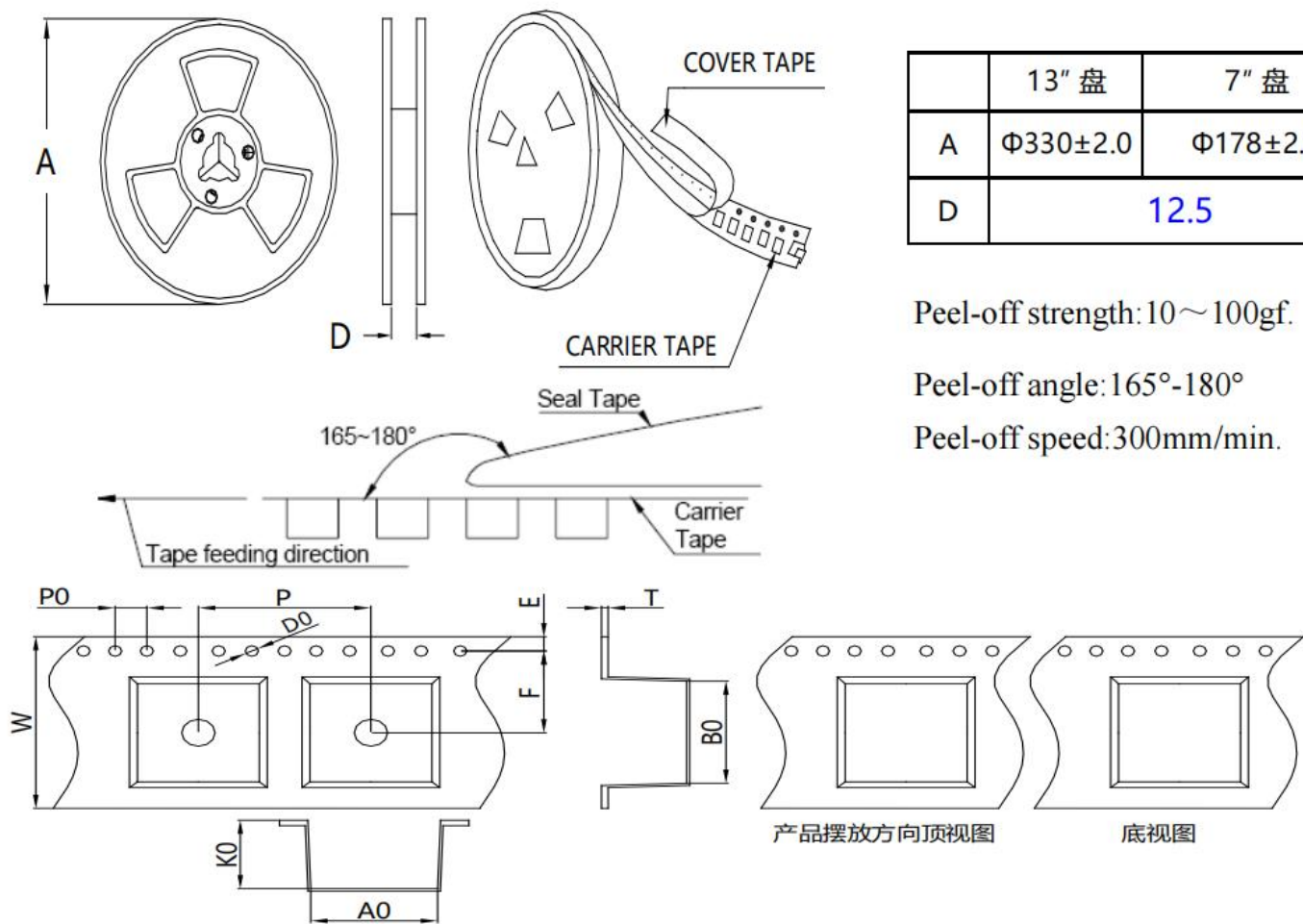
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7. PACKAGING(unit: mm)

1.包装类型：编带装

2.包装尺寸：☒ 13" 盘 ☐ 7" 盘



| Item    | W      | A0       | B0       | K0      | P       | T         | E        | F       | D0      | P0      |
|---------|--------|----------|----------|---------|---------|-----------|----------|---------|---------|---------|
| DIM(mm) | 12±0.3 | 5.4±0.15 | 5.4±0.15 | 2.4±0.1 | 8.0±0.1 | 0.35±0.05 | 1.75±0.1 | 5.5±0.1 | 1.5±0.1 | 4.0±0.1 |

包装数量: 2000PCS / 卷

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