# 承 認 書

# SPECIFICATION FOR APPROVAL

| | |
|---|---|
| CUSTOMER: | STD |
| DESCRIPTION: | WIRE WOUND CHIP INDUCTOR |
| PART NO: | MWI0603LD-C系列 |
| CUST. PART NO: | |
| REV. NO. | A0 |

| DRAWING | | |
|---|---|---|
| PREPARED | CHECKED | APPROVED |
| Yu | Lu | Zeng |
| DATE: | 2023-10-10 | |

| CUSTOMER APPROVE |
|---|
| |


铭易轩电子科技有限公司

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ecifications subjectto change withoutnotice.Please confirm according to our companyfor latestinformati

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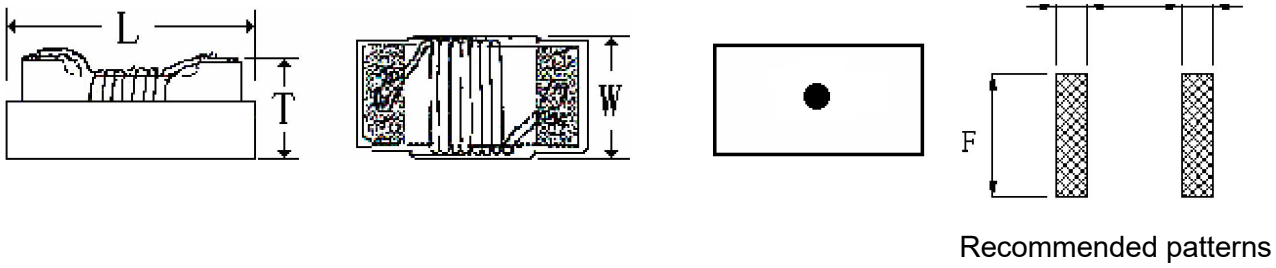
**MODIFY RECORD 变更履历**

| Date | Rev. No. | Change Content | Prepared | Approved |
|---|---|---|---|---|
| 2023-10-10 | A0 | New issue | Yu | Zeng |
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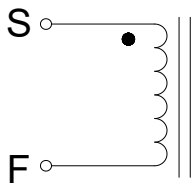
## 1. SHAPE & DIMENSION (UNIT:mm)




Recommended patterns

| L | W | T | E | F | D |
|---|---|---|---|---|---|
| 1.8 Max. | 1.25 Max. | 1.1 Max. | 0.64 Max. | 1.02 Typ. | 0.64 Typ. |

## 2. SCHEMATIC




## 3. PART NUMBERING SYSTEM

| MWI | xxx | LD | xxx | K | S | T | - | C | - | HF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | | 9 |

1 PRODUCT SYMBOL（产品代号）

2 DIMENSIONS （规格尺寸）

3 MATERIAL （类型）

4 INDUCTANCE（电感量）

5 TOLERANCE（公差） ：J±5%；K±10%；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 Color （颜色）：C -点色

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

| APPROVED | CHECKED | PREPARED |
|---|---|---|
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4. ELECTRICAL CHARACTERISTICS

| No. | Part Number | L | Freq | Q | SRF | Rdc | Irms | Tolerance | Color |
|---|---|---|---|---|---|---|---|---|---|
| | | (uH) | (MHz) | (Typ.) | (MHz) Typ. | (Ω)Max. | (mA) Typ. | | |
| 1 | MWI0603LD1R0□ST-HF | 1 | 7.9 | 16 | 250 | 0.41 | 700 | K,M | \ |
| 2 | MWI0603LD1R5□ST-C-HF | 1.5 | 7.9 | 16 | 160 | 0.52 | 600 | K,M | Brown |
| 3 | MWI0603LD1R8□ST-C-HF | 1.8 | 7.9 | 16 | 121 | 0.56 | 580 | K,M | Red |
| 4 | MWI0603LD2R2□ST-C-HF | 2.2 | 7.9 | 16 | 103 | 0.72 | 580 | K,M | Orange |
| 5 | MWI0603LD2R7□ST-C-HF | 2.7 | 7.9 | 16 | 72 | 0.81 | 500 | K,M | Yellow |
| 6 | MWI0603LD3R3□ST-C-HF | 3.3 | 7.9 | 16 | 66 | 0.91 | 500 | K,M | Green |
| 7 | MWI0603LD3R9□ST-C-HF | 3.9 | 7.9 | 16 | 61 | 1.08 | 460 | K,M | Blue |
| 8 | MWI0603LD4R7□ST-C-HF | 4.7 | 7.9 | 16 | 51 | 0.97 | 420 | K,M | Violet |
| 9 | MWI0603LD5R6□ST-C-HF | 5.6 | 7.9 | 16 | 47 | 1.43 | 380 | K,M | Gray |
| 10 | MWI0603LD6R8□ST-C-HF | 6.8 | 7.9 | 16 | 43 | 1.95 | 340 | K,M | White |
| 11 | MWI0603LD8R2□ST-HF | 8.2 | 7.9 | 16 | 40 | 2.18 | 300 | K,M | \ |
| 12 | MWI0603LD100□ST-C-HF | 10 | 2.5 | 14 | 36 | 2.40 | 280 | J,K,M | Brown |
| 13 | MWI0603LD120□ST-C-HF | 12 | 2.5 | 14 | 32 | 2.96 | 260 | J,K,M | Red |
| 14 | MWI0603LD150□ST-C-HF | 15 | 2.5 | 14 | 29 | 3.38 | 220 | J,K,M | Orange |
| 15 | MWI0603LD180□ST-C-HF | 18 | 2.5 | 14 | 28 | 3.77 | 220 | J,K,M | Yellow |
| 16 | MWI0603LD220□ST-C-HF | 22 | 2.5 | 14 | 24 | 4.69 | 200 | J,K,M | Green |
| 17 | MWI0603LD270□ST-C-HF | 27 | 2.5 | 14 | 20 | 6.76 | 140 | J,K,M | Blue |
| 18 | MWI0603LD330□ST-C-HF | 33 | 2.5 | 14 | 15 | 8.58 | 120 | J,K,M | Violet |

□:表示产品公差

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## 4. ELECTRICAL CHARACTERISTICS

| No. | Part Number | L (uH) | Freq (MHz) | Q (Min.) | SRF (MHz) Typ. | Rdc (Ω)Max. | Irms (mA) Typ. | Tolerance | Color |
|---|---|---|---|---|---|---|---|---|---|
| 19 | MWI0603LD470□ST-HF | 47 | 2.5 | 14 | 5.0 | 12.00 | 100 | J,K,M | \ |

□:表示产品公差

**Test remar□s**

(1). All test data is referenced to 25 ℃ ambient.

(2). Irms: DC current that causes the temperature rise (△T ≦40℃ ) from 25℃ ambient.

## 5. GENERAL SPECIFICATION

(1). Operating temp.: -40℃ ~ +85℃ (Including self-generated heat).

(2). Storage temp.: -10℃ ~ +40℃ R.H.:60% Max.

(3). Moisture sensitivity level (MSL) 1

(4). Recommended products should be used within 12 months from the date of delivery

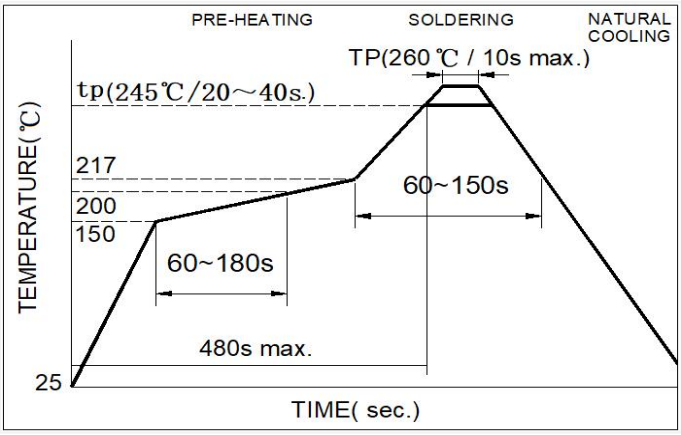
(5). The part temperature (ambient + temp rise) should not exceed 85°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thic□ness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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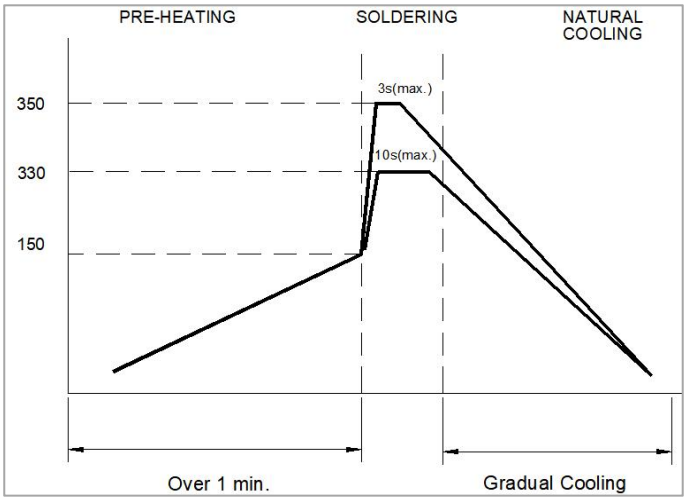
## 6. SOLDERING CONDITIONS

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




Note：
Preheat circuit and products to 150℃
260℃ 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**



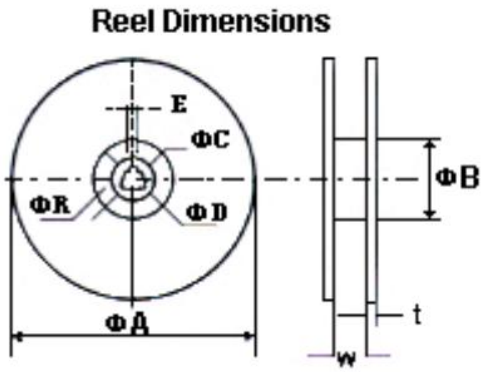


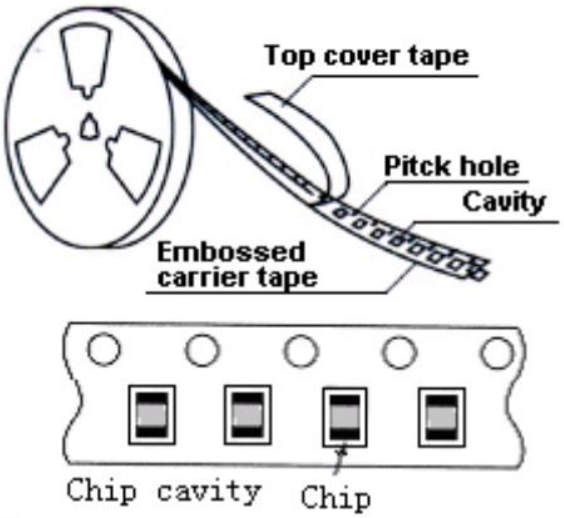

Note：
Use a 20 watt soldering iron with tip diameter of 1.0mm
Limit soldering time to 3 sec.

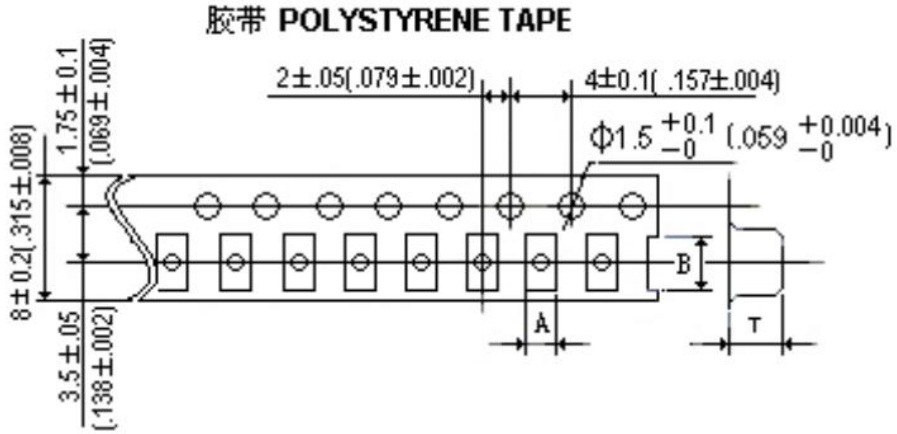
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## 7. PACKAGE SPECIFICATION



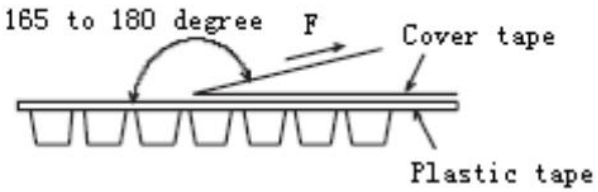




Peeling off force

Pull strength
0402～1210:20g～80g

Speed of peeling off:
300mm/min±10%




| | A | B | T |
|---|---|---|---|
| 胶带 | 1.15Typ. | 1.83Typ. | 0.95Typ. |

| ΦA | ΦB | ΦC | ΦD | E | W | t |
|---|---|---|---|---|---|---|
| 178Typ. | 60Typ. | 13Typ. | 21Typ. | 2Typ. | 8.4Typ. | 2Typ. |

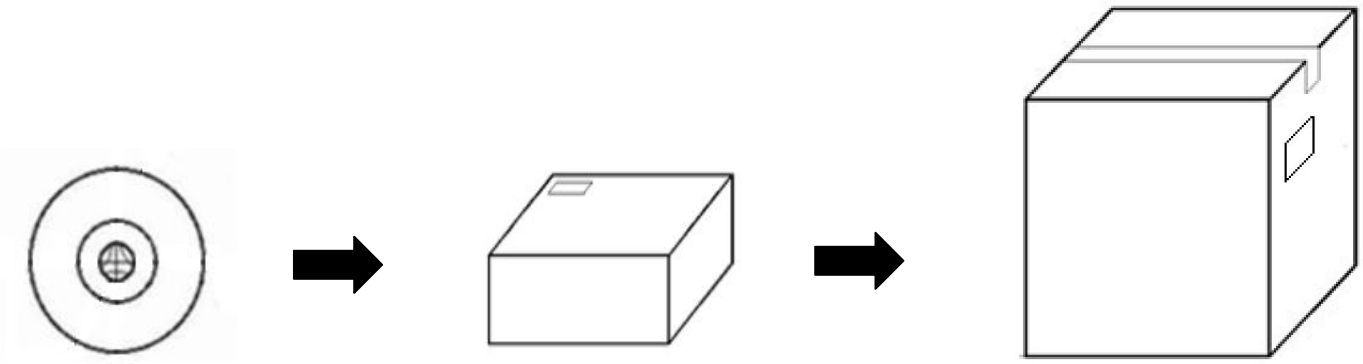
包装数量(PACKAGING QUANTITY)：4000Pcs/盘

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**8.Package Specifications**

**Inside Box And Outside Carton**



| 卷轴数量 | → | 内盒包装数量 | → | 外箱包装数量 |
|---|---|---|---|---|
| **每卷:4000PCS** | | **每盒四盘，共16000 PCS** | | **小箱6盒，共96000 PCS** |
| | | | | **中箱8盒，共128000 PCS** |
| | | | | **大箱10盒，共160000 PCS** |

| 内盒包装尺寸 | → | 外箱包装尺寸 |
|---|---|---|
| **20.3*19.3*5.5cm** | | **小箱，40.6*23*19.7cm** |
| | | **中箱，41*22*26cm** |
| | | **大箱，41*22*33cm** |

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