



# 承認書

## SPECIFICATION FOR APPROVAL

CUSTOMER:

DESCRIPTION:

COMMON MODE CHOKE

PART NO:

MWBA0504D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

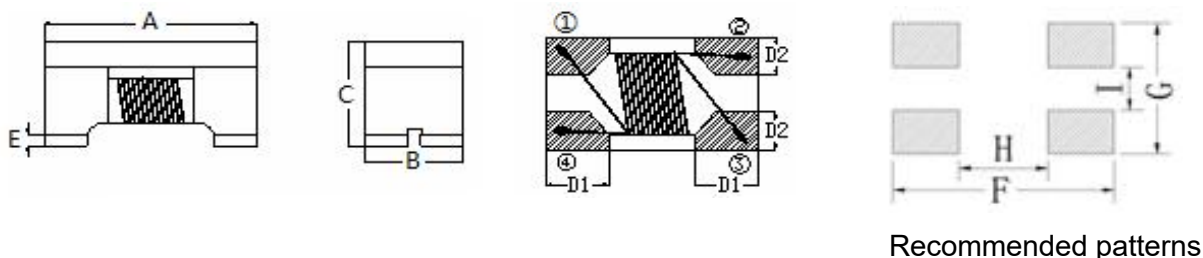
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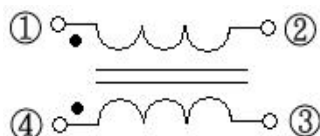
## 1. SHAPE & DIMENSION (UNIT:mm)



Recommended patterns

| A           | B           | C           | E            | D1           | D2           | F            | G           | H           | I           |
|-------------|-------------|-------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
| 1.2<br>±0.2 | 1.0<br>±0.2 | 0.9<br>Max. | 0.03<br>Min. | 0.35<br>±0.1 | 0.35<br>±0.1 | 1.55<br>Typ. | 1.0<br>Typ. | 0.5<br>Typ. | 0.3<br>Typ. |

## 2. SCHEMATIC



## 3. PART NUMBERING SYSTEM

MWBA 0504 D 900 P T - F46 - HF  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① PRODUCT SYMBOL (产品代号)
- ② DIMENSIONS (规格尺寸)
- ③ TYPE (类型)
- ④ IMPEDANCE (阻抗)
- ⑤ TOLERANCE (公差) : P±25%; N±30%
- ⑥ PACKAGING (包装方式) : T-编带盘装; B-散装
- ⑦ IDENTIFICATION CODE(标识码): 无则缺省此项.
- ⑧ E.P. (环保) : LF—Lead Free HF—Halogen Free FP—Red Phosphor Free

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

| No. | Part Number           | Z   | Freq  | Rdc     | Irms     | Rated Voltage | Insulation Resistance |
|-----|-----------------------|-----|-------|---------|----------|---------------|-----------------------|
|     |                       | (Ω) | (MHz) | (Ω)Max. | (mA)Max. | Volts         | MΩ Min.               |
| 1   | MWBA0504D350PT-F-HF   | 35  | 100   | 0.18    | 430      | 20            | 10                    |
| 2   | MWBA0504D900PT-F46-HF | 90  | 100   | 0.35    | 280      | 50            | 10                    |

#### Test remarks

- (1). All test data is referenced to 25 °C ambient.
- (2). Irms: Rating DC current: Temperature rise( $\Delta T$ ) is 40°C approximately at Irms.

### 5. GENERAL SPECIFICATION

- (1). Operating temp.: -40°C ~ +125°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.

#### 注意:

此物料不涉及汽车或相关产品方面的应用，否则，由此引起的一切品质和责任问题，我司将概不承担。

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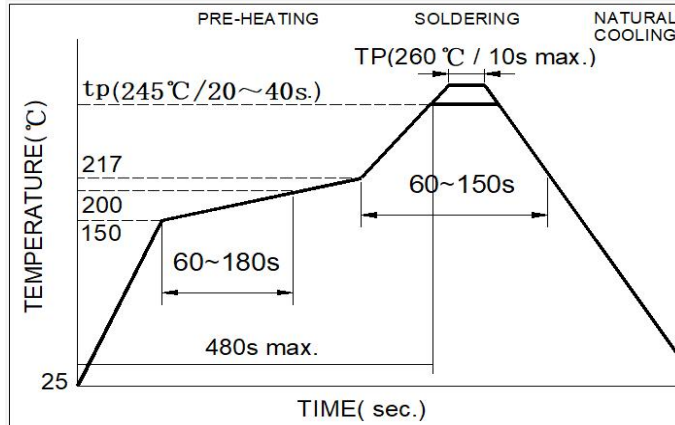


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### 6. SOLDERING CONDITIONS

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



Note:

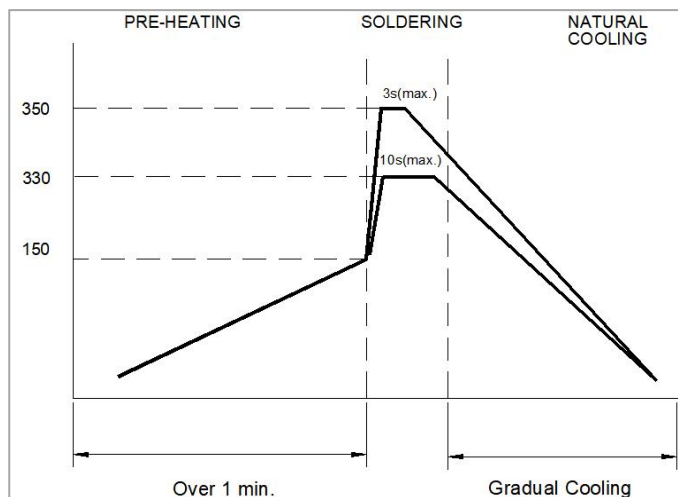
Preheat circuit and products to 150°C

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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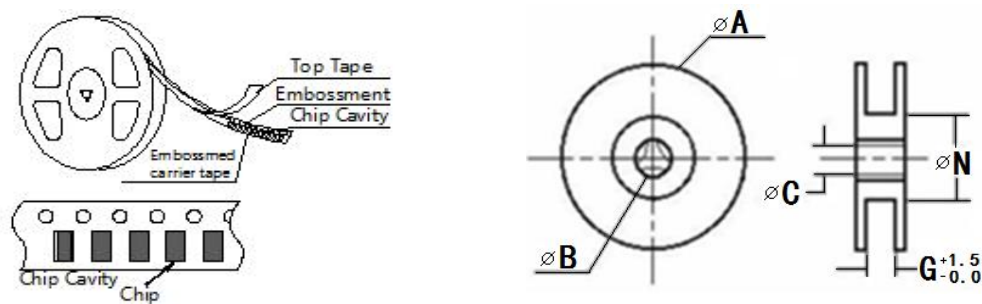


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7. PACKAGE SPECIFICATION

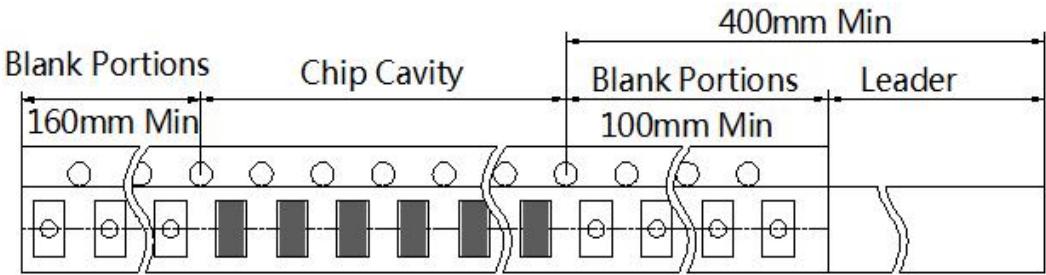
TAPING DRAWINGS



REEL DIMENSIONS(UNIT:mm)

|      |         |        |          |        |   |
|------|---------|--------|----------|--------|---|
|      | A       | B      | C        | N      | G |
| CF-8 | 178±2.0 | 22±2.0 | 13.0±1.0 | 60±1.0 | 8 |

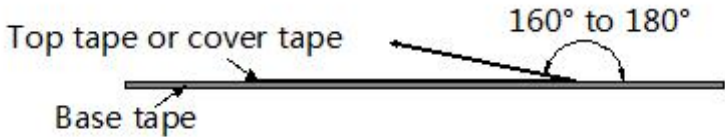
LEADER AND BLANK PORTION



(3). Packaging Quantity

|          |      |
|----------|------|
| Type     | 0504 |
| Quantity | 3000 |

PEELLING OFF FORCE:0.05 to 0.7N in the direction show below.



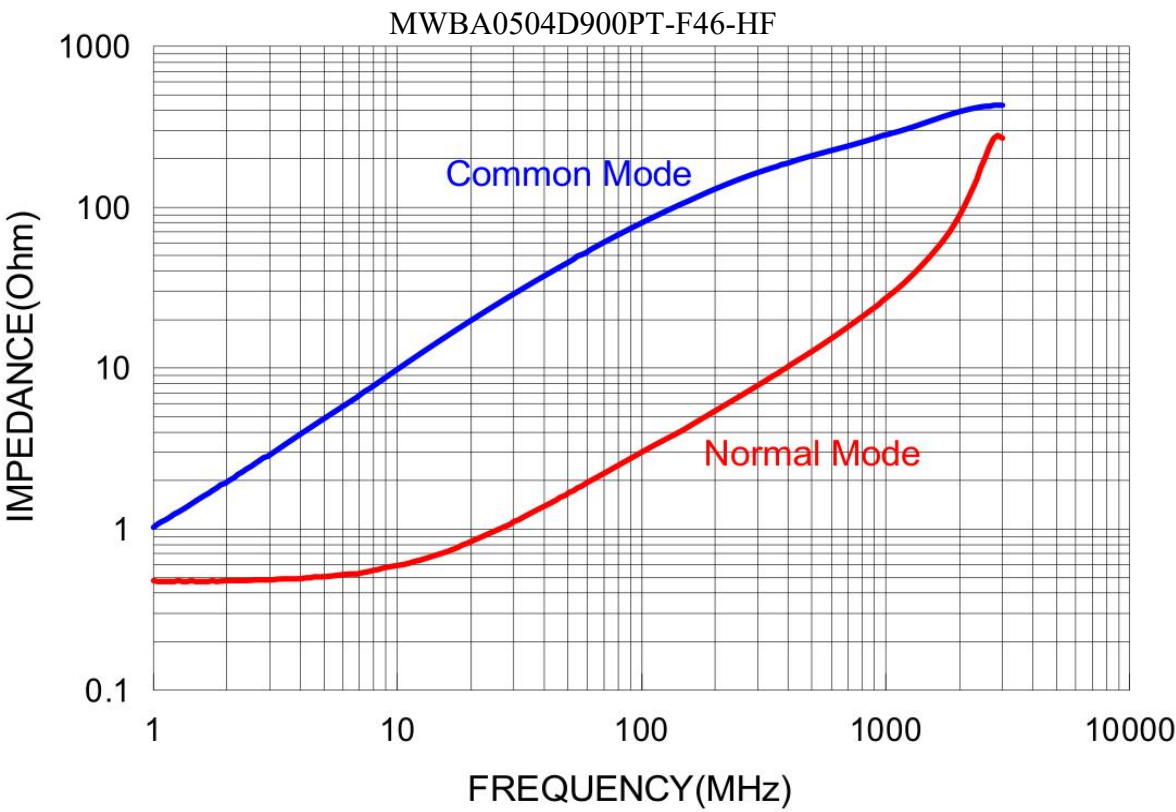
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8. ELECTRICAL CHARACTERISTIC CURVE



|          |         |          |
|----------|---------|----------|
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