

# Specification of Cjiang products

|               |                                        |
|---------------|----------------------------------------|
| Customer      |                                        |
| Product Name  | Wire Wound Chip Common Mode Choke Coil |
| Customer P/N: |                                        |
| C iang P/N:   | FDCW4532 Series                        |

☒ New Released, ☐ Revised

SPEC No:

|                            |  |  |
|----------------------------|--|--|
| REMARK:                    |  |  |
|                            |  |  |
| Customer Approval Feedback |  |  |
|                            |  |  |

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### Version change history

| Rev | Date      | Description          | APPROVED | CHECKED | DRAWN |
|-----|-----------|----------------------|----------|---------|-------|
| 1.0 | 2026/8/10 | Document formulation | BOND     | MIKO    | Roy   |
|     |           |                      |          |         |       |
|     |           |                      |          |         |       |

#### Caution :

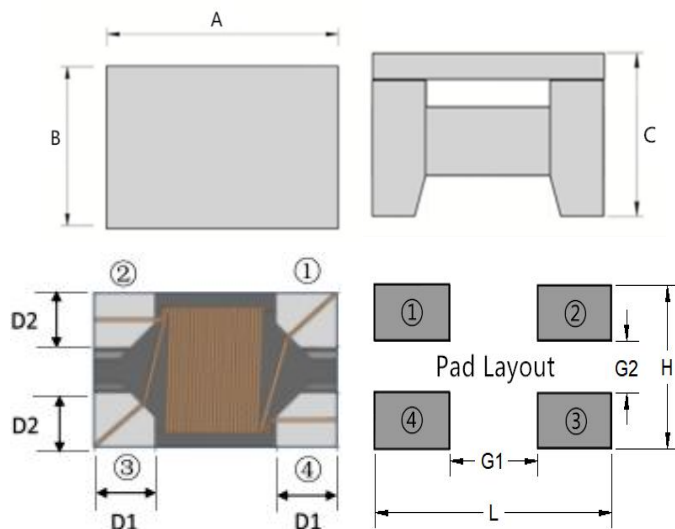
All products listed in this specification are developed, designed and intended for use in general electronics equipment. The products are not designed or Warranted to meet the requirements of the applications listed below, whose performance and/or quality require especially high reliability, or whose failure, malfunction or trouble might directly cause damage to society, person, or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below. Please contact us for more details if you intend to use our products in the following applications.

1. Aircraft equipment.
2. Aerospace equipment.
3. Undersea equipment.
4. nuclear control equipment.
5. military equipment.
6. Power plant equipment.
7. Medical equipment.
8. Transportation equipment (automobiles, trains, ships,etc.)
9. Traffic signal equipment.
10. Disaster prevention / crime prevention equipment.
11. Data-processing equipment.
12. Applications of similar complexity or with reliability requirements comparable to the applications listed in the above.

## 1.General Description

1. This specification is applied to FDCW4532N series Common Mode Choke.
2. Applications:DC power line common mode noise suppression; Switch Mode Power Supplies and regulators; Variable Frequency Drives; AC/DC power rectifiers.
3. Operating Temperature Range : -40 ~ +125 °C , Storage condition : Temperature -10 ~ +40 °C, Relative Humidity 40%~60%.

## 2.Appearance & Shape



## Dimension (Unit:mm)

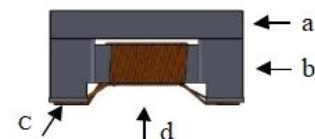
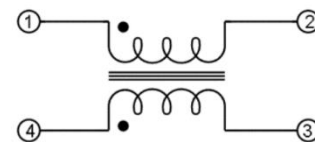
| Series: | FDCW4532 |
|---------|----------|
| A(mm)   | 4.5±0.2  |
| B(mm)   | 3.2±0.2  |
| C(mm)   | 2.8±0.2  |
| D1(mm)  | 0.90     |
| D2(mm)  | 1.10     |
| G1(mm)  | 2.70     |
| G2(mm)  | 0.70     |
| L(mm)   | 5.1      |
| H(mm)   | 3.8      |

## 3.Part Number

|      |      |    |      |   |   |
|------|------|----|------|---|---|
| FDCW | 4532 | -2 | -800 | T | F |
| A    | B    | C  | D    | E | F |

- A:Series  
B:Dimension  
C:2 lines  
D:Impedance : 80Ω  
E:Packing ( Tape & Reel )  
F:Internal code

## 4.Equivalent Circuit / Materials

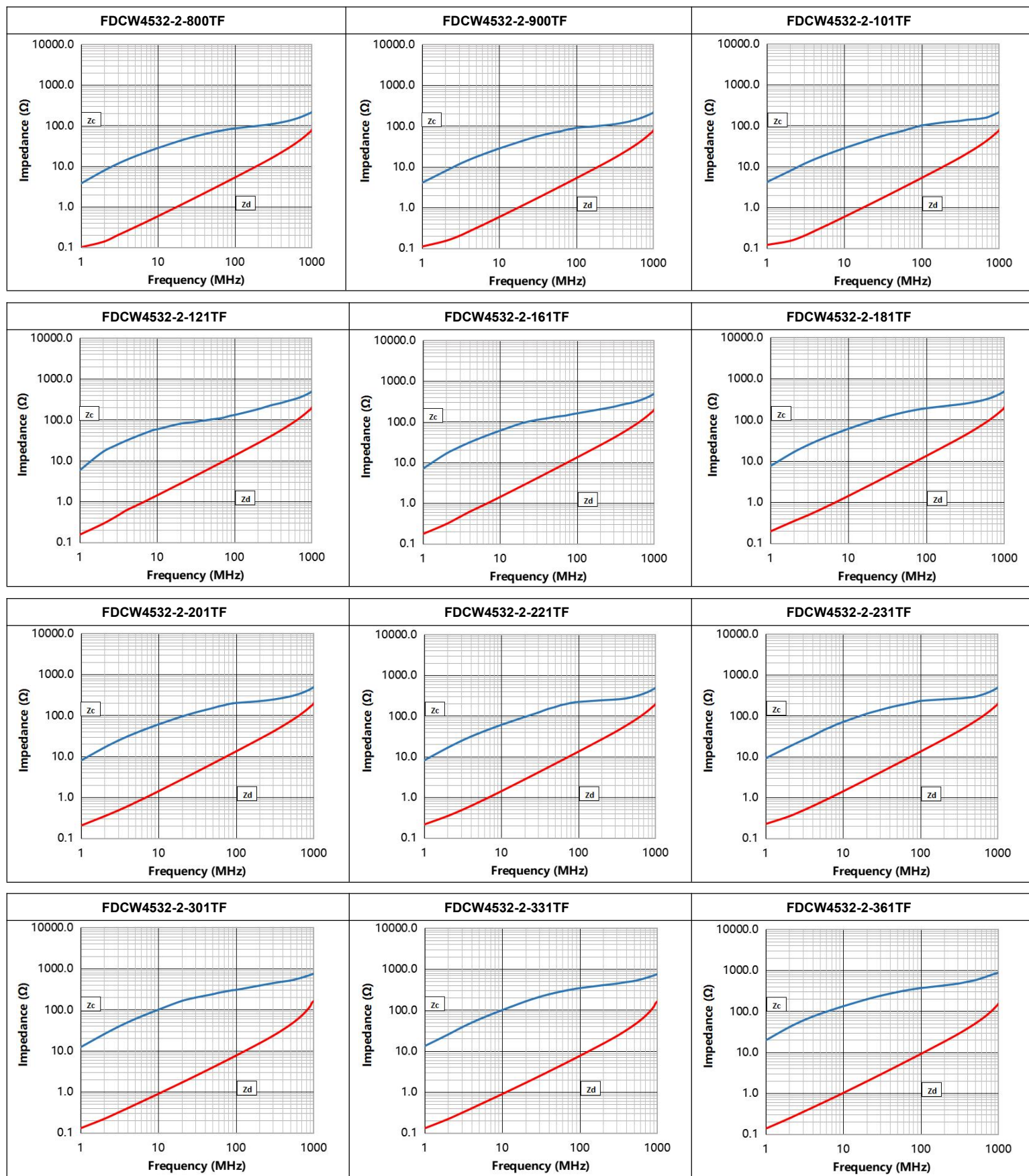


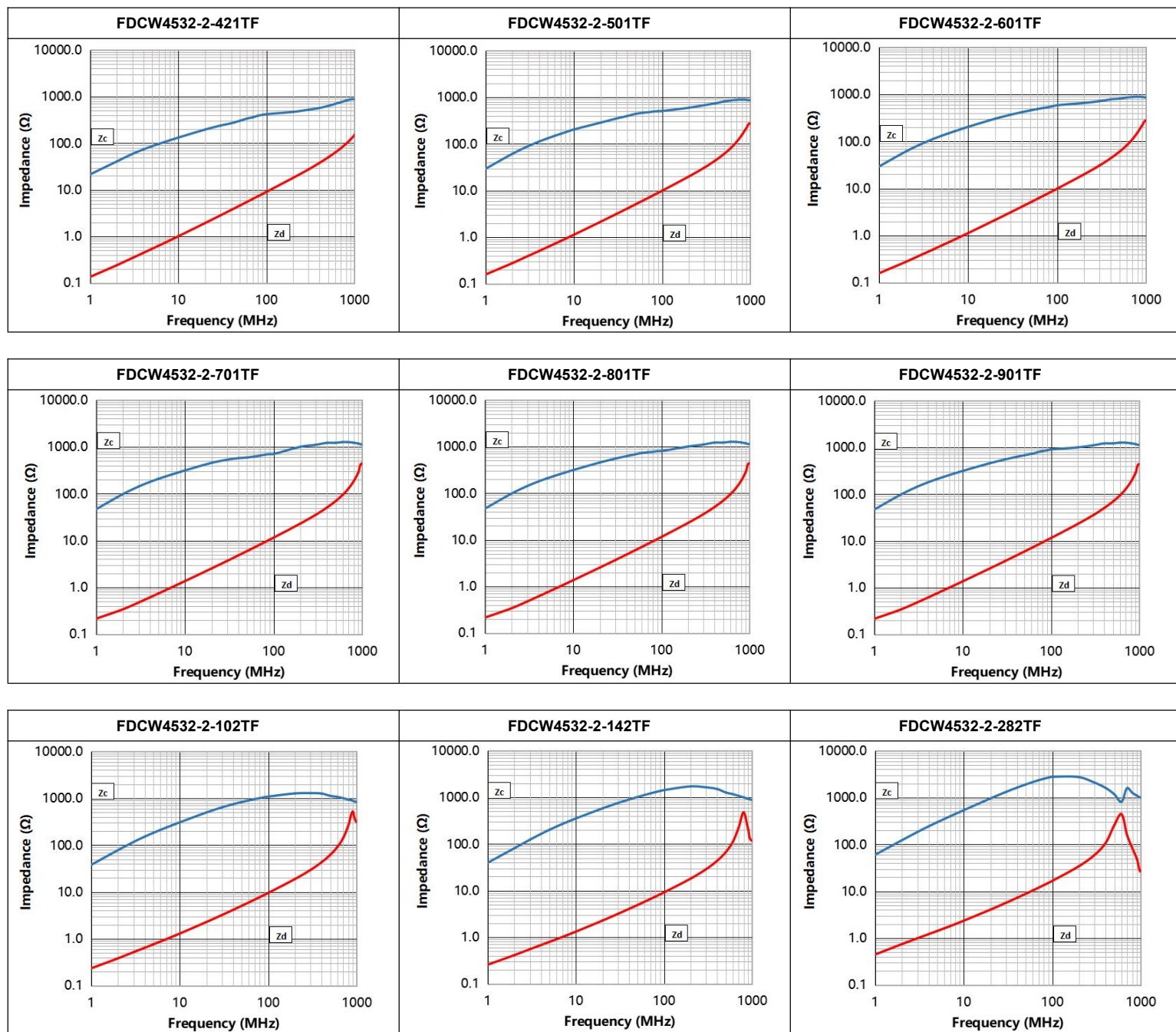
| NO. | Description | Specification        |
|-----|-------------|----------------------|
| a   | Upper Plate | Ferrite              |
| b   | Core        | Ferrite Core         |
| c   | Termination | Ag/Ni/Sn             |
| d   | Wire        | Enameled Copper Wire |

## 5.Electrical Characteristics

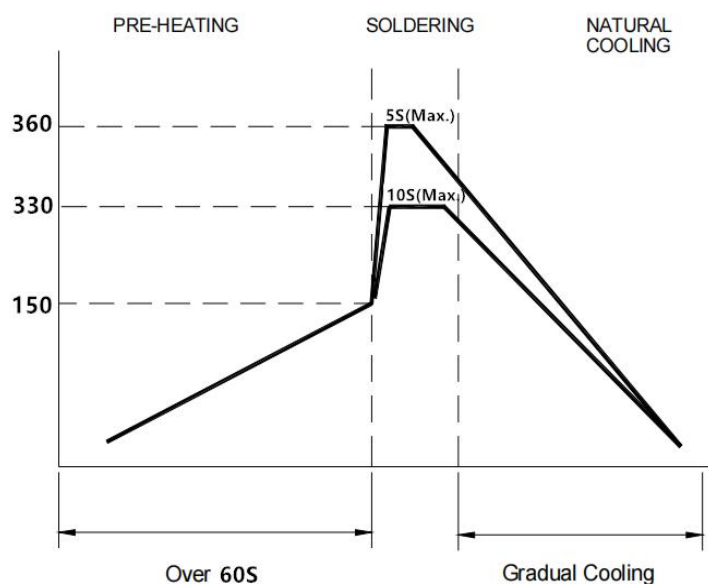
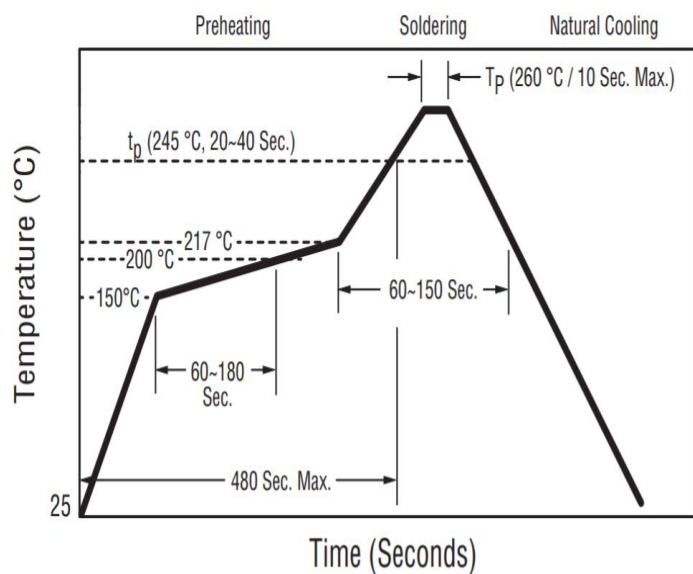
| Part No.         | Common mode<br>Impedance<br>(Ω)±25% | DC Resistance<br>(Ω) (Max) | Test<br>Frequency<br>(MHz) | Rated Volt.<br>(Vdc)max. | Rated Current<br>(mA) | Withstand<br>Volt.<br>(Vdc)max. | IR<br>(MΩ)min. |
|------------------|-------------------------------------|----------------------------|----------------------------|--------------------------|-----------------------|---------------------------------|----------------|
| FDCW4532-2-800TF | 80                                  | 0.040                      | 100                        | 50                       | 3500                  | 125                             | 10             |
| FDCW4532-2-900TF | 90                                  | 0.043                      | 100                        | 50                       | 3500                  | 125                             | 10             |
| FDCW4532-2-101TF | 100                                 | 0.048                      | 100                        | 50                       | 3000                  | 125                             | 10             |
| FDCW4532-2-121TF | 120                                 | 0.050                      | 100                        | 50                       | 3000                  | 125                             | 10             |
| FDCW4532-2-161TF | 160                                 | 0.050                      | 100                        | 50                       | 3000                  | 125                             | 10             |
| FDCW4532-2-181TF | 180                                 | 0.050                      | 100                        | 50                       | 3000                  | 125                             | 10             |
| FDCW4532-2-201TF | 200                                 | 0.050                      | 100                        | 50                       | 3000                  | 125                             | 10             |
| FDCW4532-2-221TF | 220                                 | 0.050                      | 100                        | 50                       | 3000                  | 125                             | 10             |
| FDCW4532-2-231TF | 230                                 | 0.050                      | 100                        | 50                       | 3000                  | 125                             | 10             |
| FDCW4532-2-301TF | 300                                 | 0.055                      | 100                        | 50                       | 2500                  | 125                             | 10             |
| FDCW4532-2-331TF | 330                                 | 0.055                      | 100                        | 50                       | 2500                  | 125                             | 10             |
| FDCW4532-2-361TF | 360                                 | 0.055                      | 100                        | 50                       | 2500                  | 125                             | 10             |
| FDCW4532-2-421TF | 420                                 | 0.055                      | 100                        | 50                       | 2500                  | 125                             | 10             |
| FDCW4532-2-501TF | 500                                 | 0.055                      | 100                        | 50                       | 2200                  | 125                             | 10             |
| FDCW4532-2-601TF | 600                                 | 0.060                      | 100                        | 50                       | 2200                  | 125                             | 10             |
| FDCW4532-2-701TF | 700                                 | 0.070                      | 100                        | 50                       | 1600                  | 125                             | 10             |
| FDCW4532-2-801TF | 800                                 | 0.070                      | 100                        | 50                       | 1600                  | 125                             | 10             |
| FDCW4532-2-901TF | 900                                 | 0.070                      | 100                        | 50                       | 1600                  | 125                             | 10             |
| FDCW4532-2-102TF | 1000                                | 0.080                      | 100                        | 50                       | 1200                  | 125                             | 10             |
| FDCW4532-2-142TF | 1400                                | 0.100                      | 100                        | 50                       | 1000                  | 125                             | 10             |
| FDCW4532-2-282TF | 2800                                | 0.250                      | 100                        | 50                       | 800                   | 125                             | 10             |

## 6. Curve Frequency(MHz)



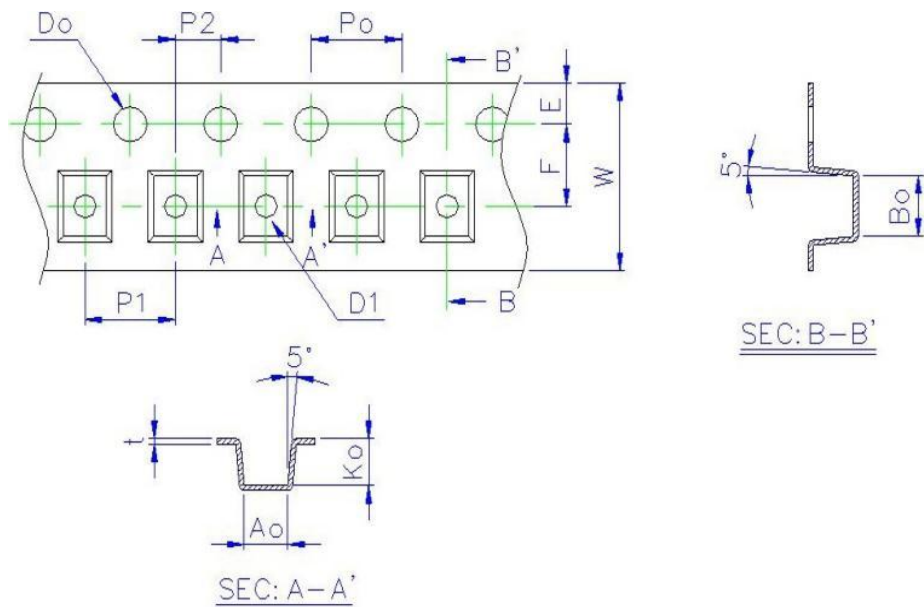


## 7.General Reflow Profile & Iron Soldering



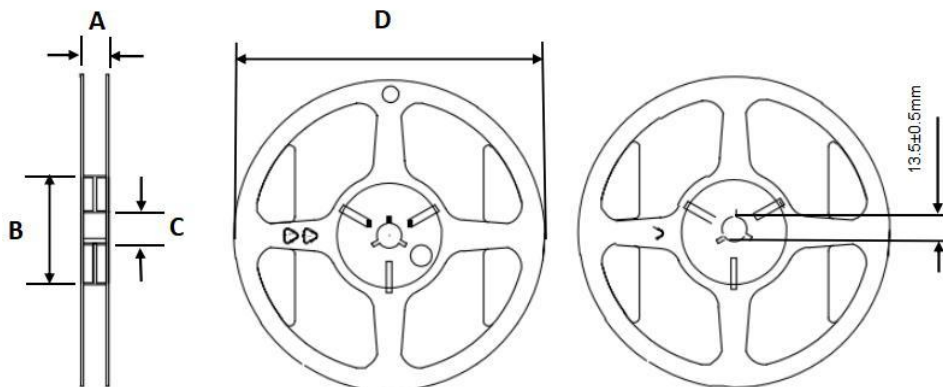
## 8.Packaging

### 1) Tape Dimensions(Unit:mm)



| Size     | Ao(mm)   | Bo(mm)   | Ko(mm)   | W(mm)     | E(mm)     | F(mm)     | Po(mm)   | P1(mm)   | Do(mm)   |
|----------|----------|----------|----------|-----------|-----------|-----------|----------|----------|----------|
| FDCW4532 | 3.6±0.10 | 4.9±0.10 | 3.0±0.10 | 12.0±0.10 | 1.75±0.10 | 5.50±0.05 | 4.0±0.05 | 8.0±0.10 | 1.5±0.05 |

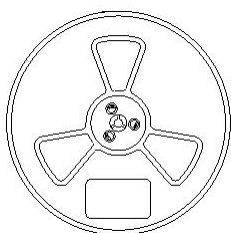
## 2) Reel



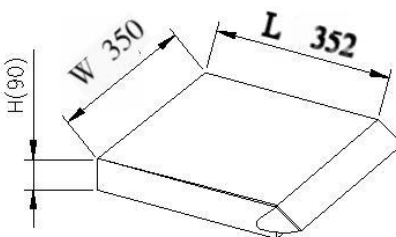
| Type     | A(mm)     | B(mm)   | C(mm)     | D(mm)    |
|----------|-----------|---------|-----------|----------|
| 13"x12mm | 13.5 ±0.5 | 60.0 ±2 | 13.5 ±0.5 | 330.0 ±2 |

| Part No. | Tape          | MPQ      |
|----------|---------------|----------|
| FDCW4532 | Embossed Tape | 2000 PCS |

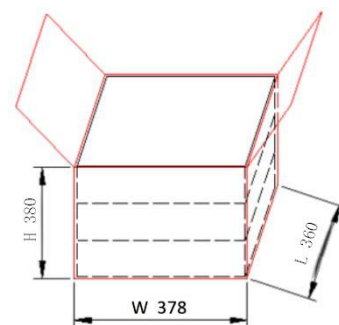
## 3). OUTSIDE PACKAGING



13" 2000pcs



Small carton: 10000 pcs



Outer carton: 40000pcs

备注:

- 1.料盘规格: 330\*13.5mm (1 REEL.) .
- 2.内箱规格: 350\*352\*90mm (5 REEL.) .
- 3.外箱规格: 378\*360\*380mm (4 REEL.) .