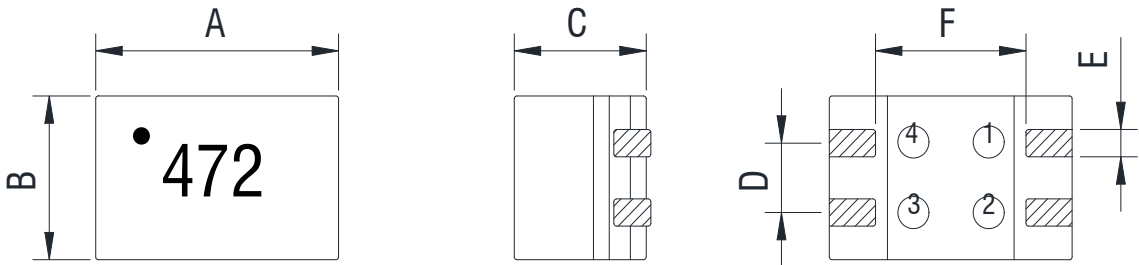


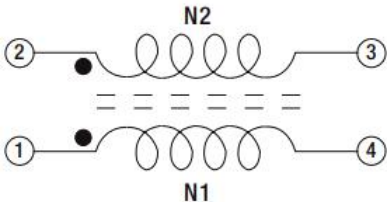
1.Appearance and dimensions (mm)



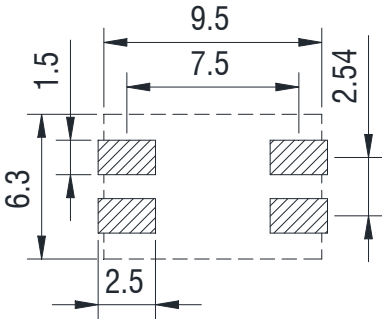
Note: Printing white characters or laser marking

|      |      |      |      |      |     |     |
|------|------|------|------|------|-----|-----|
| Item | A    | B    | C    | D    | E   | F   |
| Dim  | 9.2  | 6.0  | 5.0  | 2.54 | 1.0 | 5.7 |
| Tole | ±0.3 | ±0.3 | ±0.3 | Typ  | Typ | Typ |

2.Schematic



3.Reference land pattern (mm)



## 4.Electrical Properties

| Part Number      | Inductance<br>( $\mu$ H) | LeakageInd.<br>Inductance<br>( $\mu$ H) Typ. | D.C.R<br>( $\Omega$ ) max. | Rated<br>Voltage<br>(Vdc) max. | Rated<br>Current<br>(A) | Impedance<br>阻抗             |                                |
|------------------|--------------------------|----------------------------------------------|----------------------------|--------------------------------|-------------------------|-----------------------------|--------------------------------|
|                  |                          |                                              |                            |                                |                         | Frequency<br>Range<br>(MHz) | Min.<br>Valu e<br>( $\Omega$ ) |
| SRF0905-100Y-CND | 10 +50%/-30%             | 8                                            | 0.08                       | 80                             | 1.6                     | 20 - 300                    | 200                            |
| SRF0905-250Y-CND | 25 +50%/-30%             | 16                                           | 0.16                       | 80                             | 1.0                     | 20 - 150                    | 600                            |
| SRF0905-400Y-CND | 40 +50%/-30%             | 18                                           | 0.25                       | 80                             | 0.9                     | 20 - 100                    | 800                            |
| SRF0905-510Y-CND | 51 +50%/-30%             | 22                                           | 0.32                       | 80                             | 0.8                     | 20 - 100                    | 1500                           |
| SRF0905-251Y-CND | 250 $\pm$ 50%            | 0.11                                         | 0.13                       | 80                             | 1.2                     | 3 - 20                      | 600                            |
| SRF0905-471Y-CND | 470 $\pm$ 50%            | 0.12                                         | 0.14                       | 80                             | 1.1                     | 2 - 20                      | 1000                           |
| SRF0905-501Y-CND | 500 $\pm$ 50%            | 0.12                                         | 0.15                       | 80                             | 1.0                     | 1 - 20                      | 1000                           |
| SRF0905-102Y-CND | 1000 $\pm$ 50%           | 0.17                                         | 0.31                       | 80                             | 0.8                     | 1 - 15                      | 1500                           |
| SRF0905-202Y-CND | 2000 $\pm$ 50%           | 0.25                                         | 0.42                       | 80                             | 0.6                     | 1 - 5                       | 3000                           |
| SRF0905-472Y-CND | 4700 $\pm$ 50%           | 0.36                                         | 0.90                       | 80                             | 0.4                     | 0.3 - 3                     | 4000                           |
| SRF0905-652Y-CND | 6500 $\pm$ 50%           | 0.39                                         | 1.05                       | 80                             | 0.3                     | 0.3 - 2                     | 5000                           |

(1).Test condition: 5-1000 $\mu$ H,100KHz/0.1V; 2000-4700 $\mu$ H,10KHz/0.1V,All data is tested based on 25°C ambient temperature.

(2).Impedance measure condition reference frequency range.

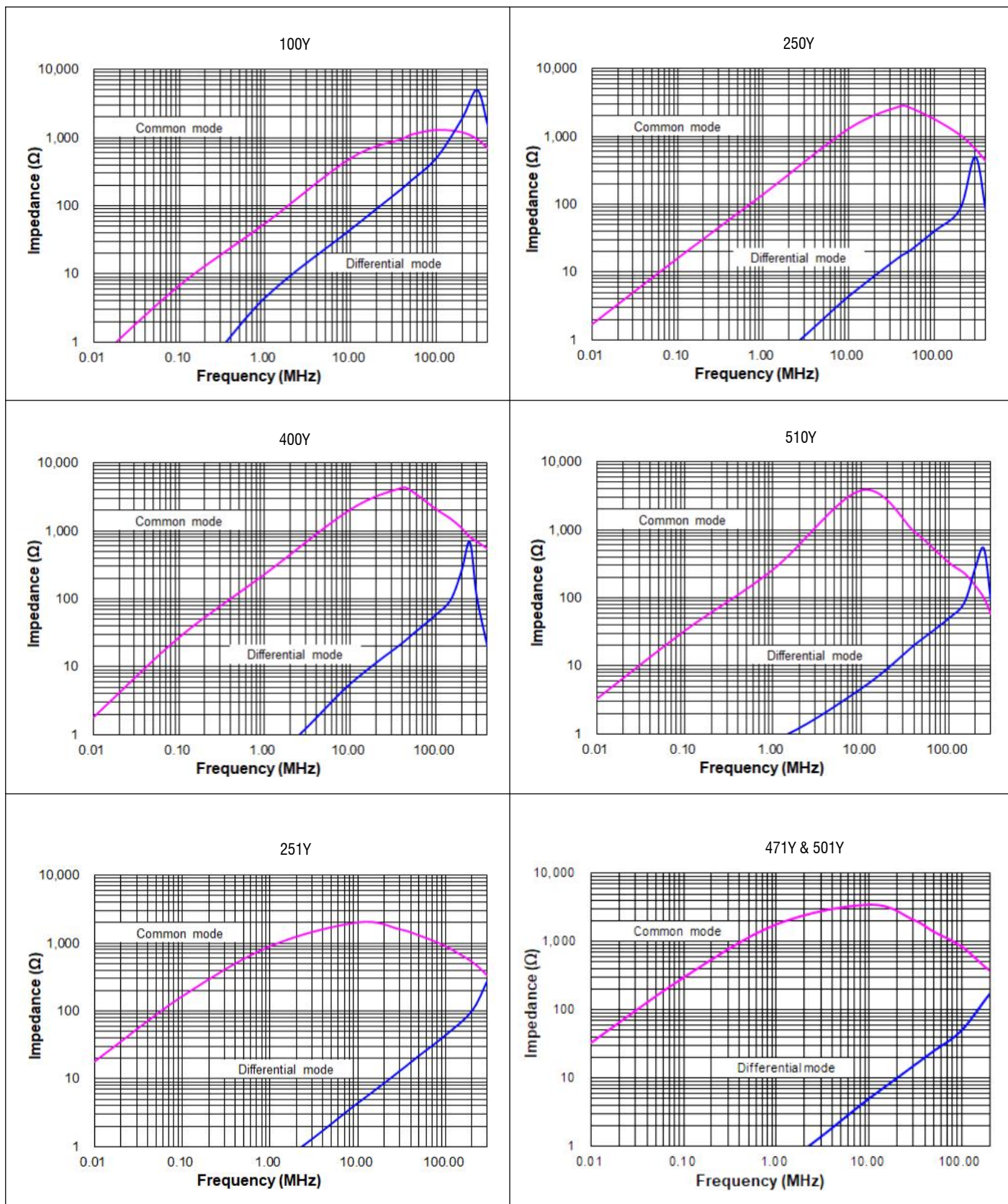
(3).Leakage inductance is for L1 and is measured with L2 shorted.

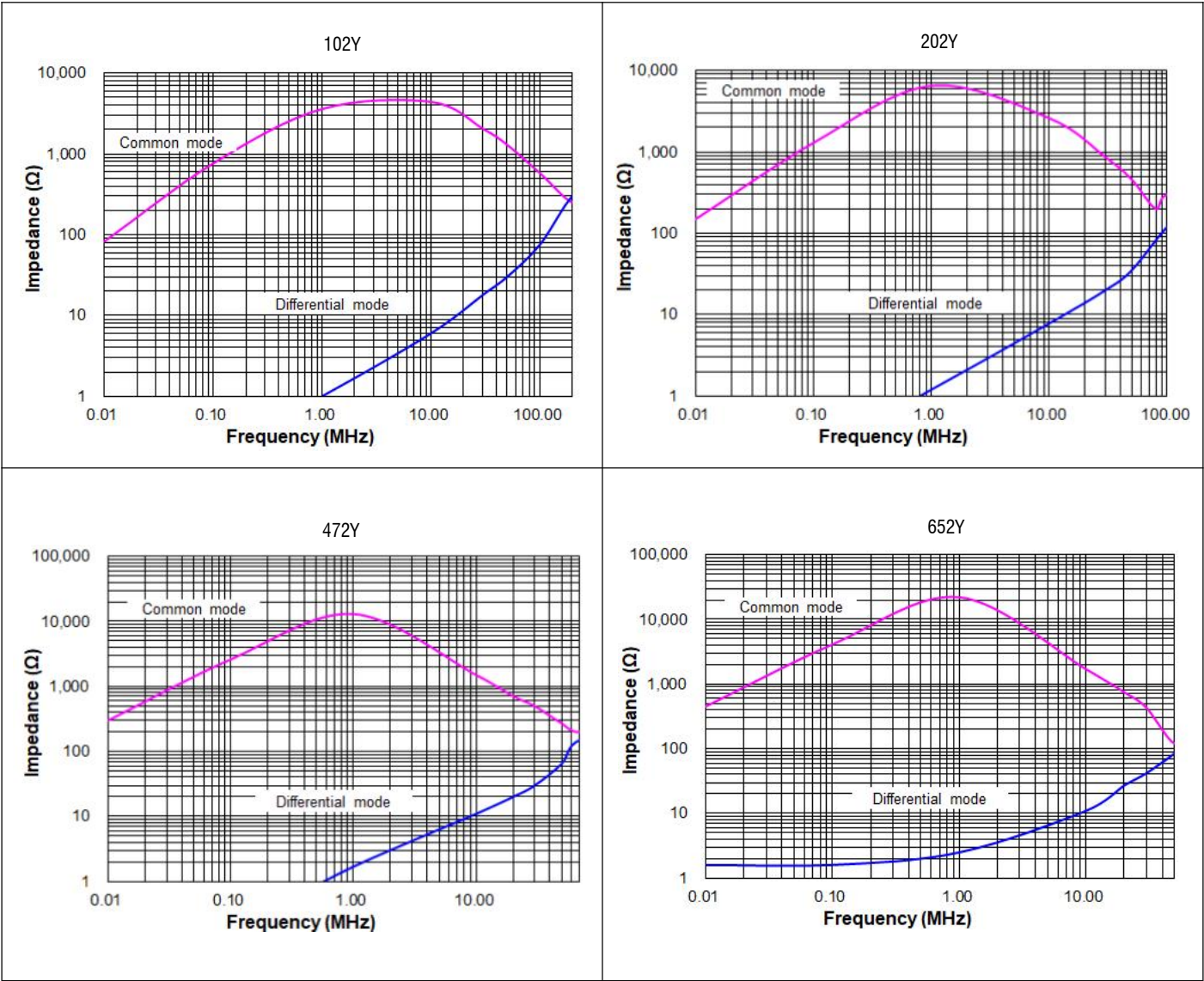
(4).Rated current: the value of DC current when the temperature rise is AT40°C (Ta=25°C).

(5).Operating Temperature: -40°C to +105°C (Temperature rise included).

(6).Storage condition: Temperature 5 to 40°C, RH $\leq$ 70%.

## 5.Impedance vs Frequency Curve



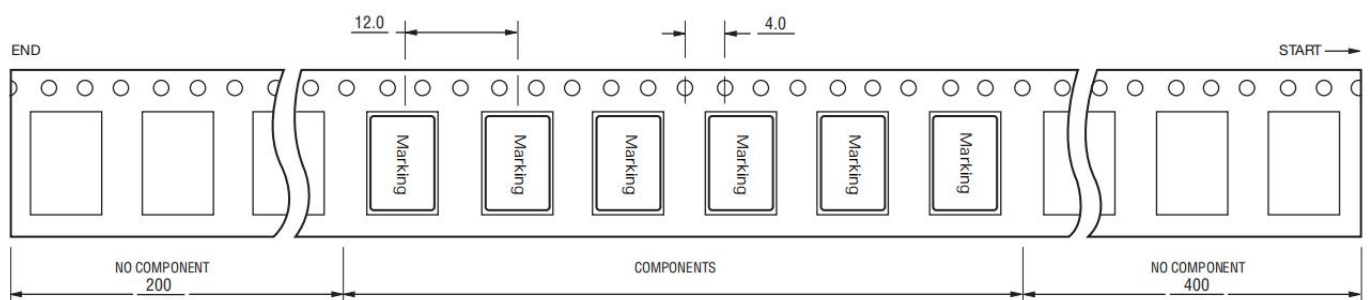


## 6.Material list

| No. | ITEM     | DESCRIPTION     |
|-----|----------|-----------------|
| 1   | CORE     | FERRITE         |
| 2   | CASE     | LCP E4008&C5191 |
| 3   | WIRE     | P180 G1         |
| 4   | ADHESIVE | FH-3614         |
| 5   | TIN      | Sn100%          |
|     |          |                 |

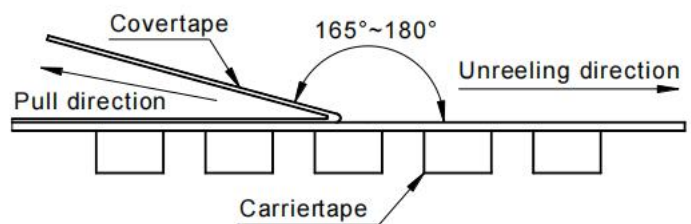
## 7.Packing Specification

## (1).Tape Direction (mm)



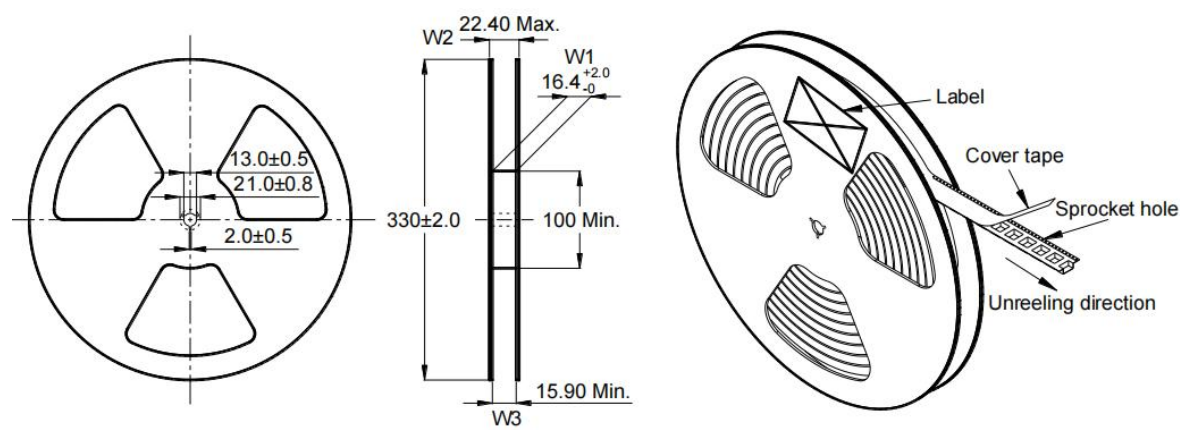
## (2).Cover Tape Peel Off Condition

- Cover tape peel force shall be 10g to 130g.
- Reference peel speed  $300 \pm 10$  mm/min.





(3). Reel Dimensions (mm)



(4).Carton Dimensions and Packing Quantity

■ Inner Carton: 340x340x70mm

■ Out Carton: 360x360x240mm

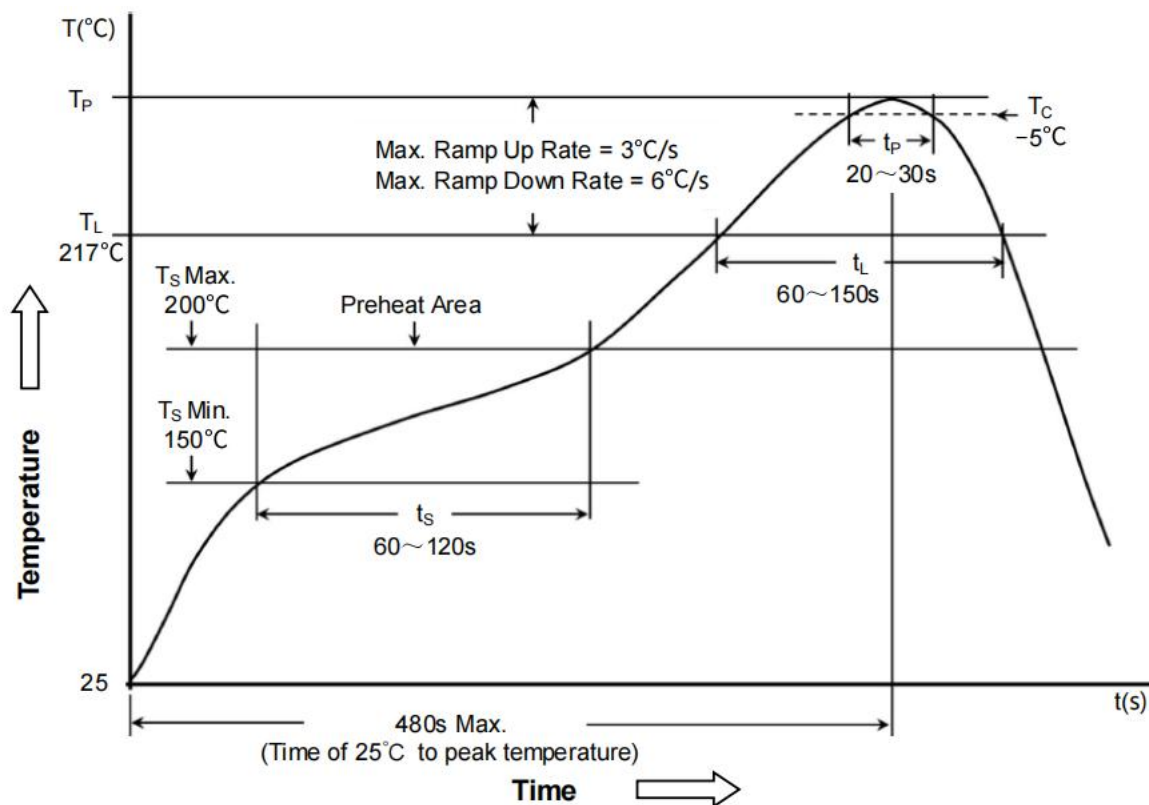
| Product Series | Quantity / Reel | Inner Carton Quantity | Out Carton Quantity |
|----------------|-----------------|-----------------------|---------------------|
| SCM0905CC      | 1000pcs         | (1000x3) = 3000pcs    | (3000x3) = 9000pcs  |

(5). Label Making

|       |  |
|-------|--|
| P/N:  |  |
| P/O:  |  |
| Qty:  |  |
| D/C:  |  |
| Date: |  |

## 8. Soldering Specification

## (1).Reflow Profile for SMT Components



## (2) .Classification of Peak Package Body Temperature (TP)

|                  | Package Thickness | Package Volume       |                          |                       |
|------------------|-------------------|----------------------|--------------------------|-----------------------|
|                  |                   | <350 mm <sup>3</sup> | 350~2000 mm <sup>3</sup> | >2000 mm <sup>3</sup> |
| PB-Free Assembly | <1.6mm            | 260°C                | 260°C                    | 260°C                 |
|                  | 1.6~2.5mm         | 260°C                | 250°C                    | 245°C                 |
|                  | ≥2.5mm            | 250°C                | 245°C                    | 245°C                 |

■ Reflow is referred to standard IPC/JEDEC J-STD-020D.