

## ■ Features

- SMD construction, and low profile.
- High Impedance and Excellent Frequency Characteristic.
- Self Electromagnetic Shielding.
- Low Magnetic Flux Leakage.
- Operating temperature: -40°C to +125°C (Contain Heating coil)

## ■ Applications

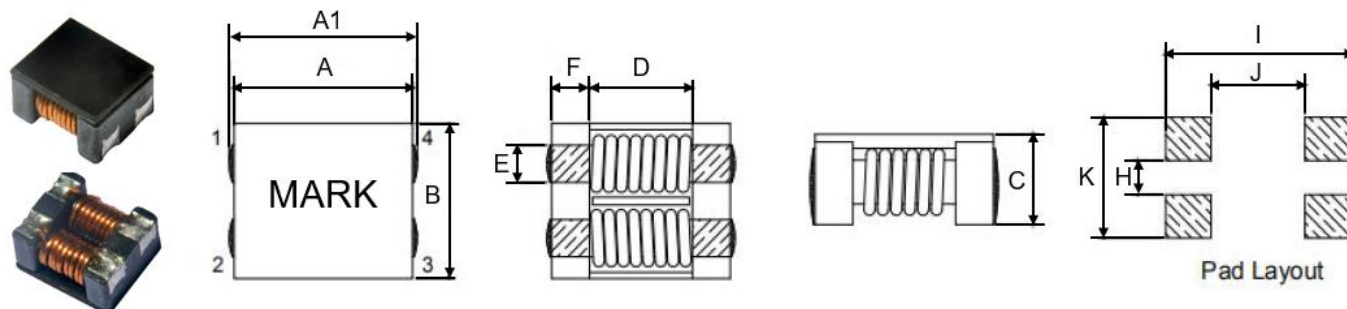
- LED Light, TV game, Monitor, etc.
- EMI common-mode noise.

## ■ Product Identification

**YLCM**   □□□□□□   -   □□□   T  
 (1)                      (2)                      (3)                      (4)

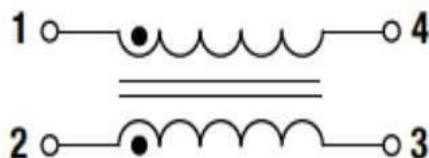
- (1) : Type
- (2) : Dimensions
- (3) : Impedance
- (4) : Taping

## ■ Shapes and Dimensions (Unit: mm)



| TYPE      | A       | A1      | B       | C<br>Max | D<br>Typ. | E<br>Typ. | F<br>Typ. | K<br>Typ. | H<br>Typ. | I<br>Typ. | J<br>Typ. |
|-----------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| YLCM7060F | 7.0±0.5 | 7.5±0.5 | 6.0±0.5 | 3.8      | 3.5       | 1.5       | 1.7       | 5.0       | 1.5       | 8.0       | 3.0       |

## ■ Circuit Diagram



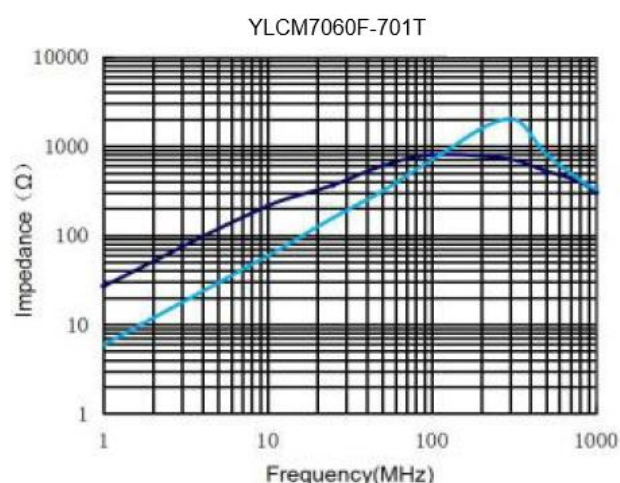
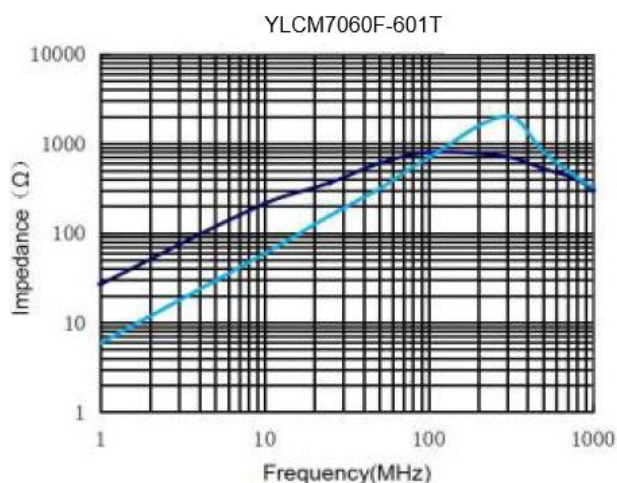
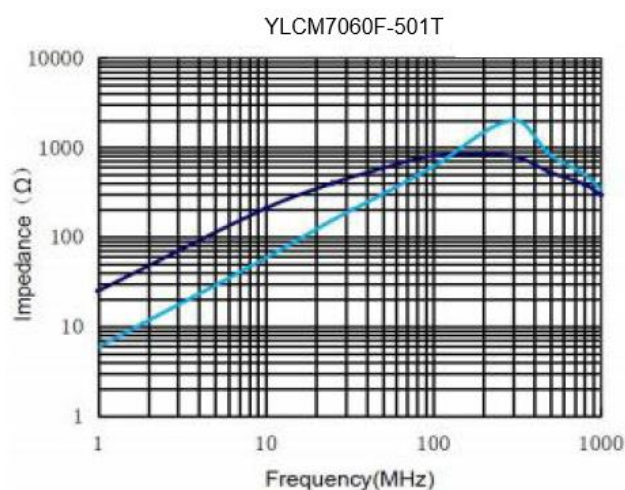
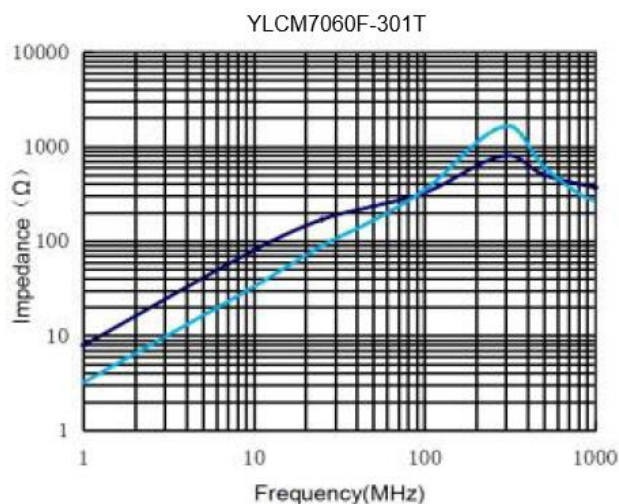
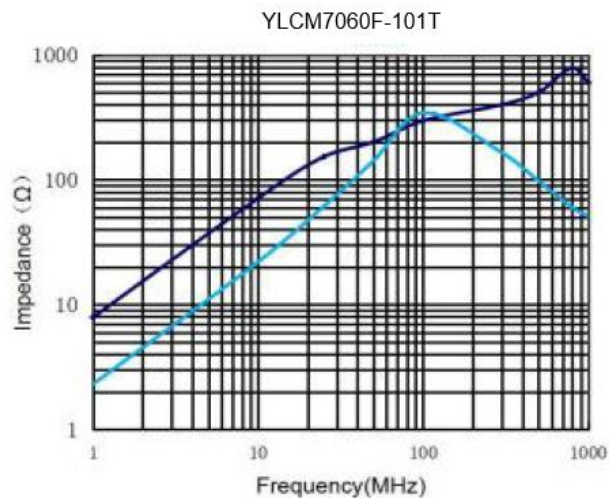
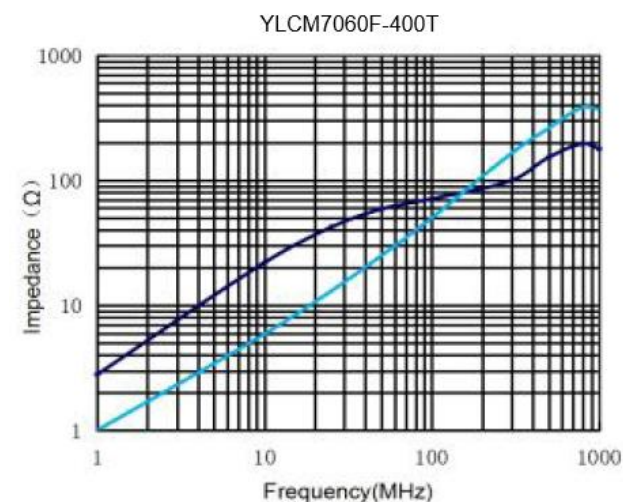
## ■ YLCM7060F Series

| Part Number    | Z (Ω) @100MHz |      | DCR (mΩ) Max. | Rated Current (A) max. | Rated Volt. (V)max. | IR(MΩ) min. |
|----------------|---------------|------|---------------|------------------------|---------------------|-------------|
|                | Min.          | Typ. |               |                        |                     |             |
| YLCM7060F-400T | 40            | 70   | 5.0           | 15.0                   | 125                 | 10          |
| YLCM7060F-101T | 100           | 140  | 10.0          | 9.0                    | 125                 | 10          |
| YLCM7060F-301T | 225           | 300  | 10.0          | 5.0                    | 125                 | 10          |
| YLCM7060F-501T | 275           | 450  | 10.0          | 5.0                    | 125                 | 10          |
| YLCM7060F-601T | 500           | 700  | 15.0          | 4.0                    | 125                 | 10          |
| YLCM7060F-701T | 500           | 700  | 15.0          | 4.0                    | 125                 | 10          |
| YLCM7060F-102T | 800           | 1020 | 17.0          | 3.0                    | 125                 | 10          |
| YLCM7060F-132T | 910           | 1300 | 21.0          | 2.5                    | 125                 | 10          |
| YLCM7060F-222T | 1400          | 2200 | 63.0          | 1.2                    | 125                 | 10          |
| YLCM7060F-272T | 2000          | 2700 | 63.0          | 1.0                    | 125                 | 10          |
| YLCM7060F-302T | 2500          | 3000 | 75.0          | 0.9                    | 125                 | 10          |
| YLCM7060F-402T | 3300          | 4000 | 100           | 0.8                    | 125                 | 10          |

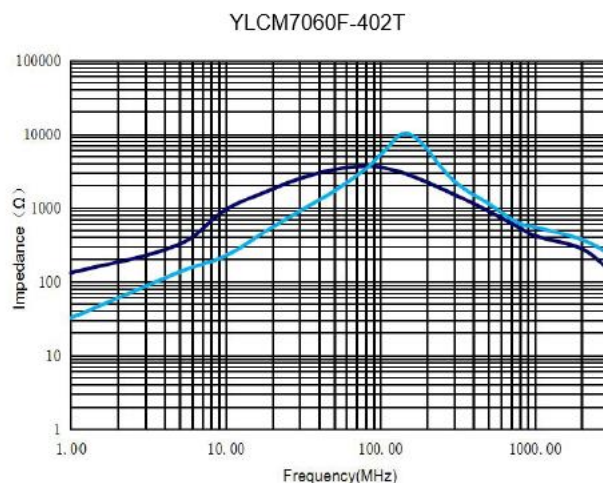
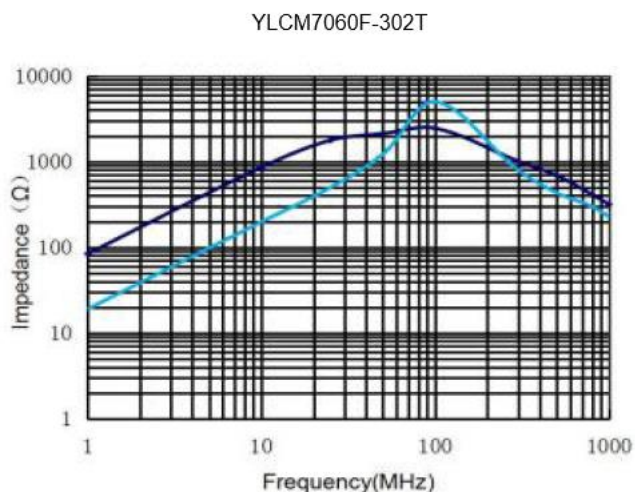
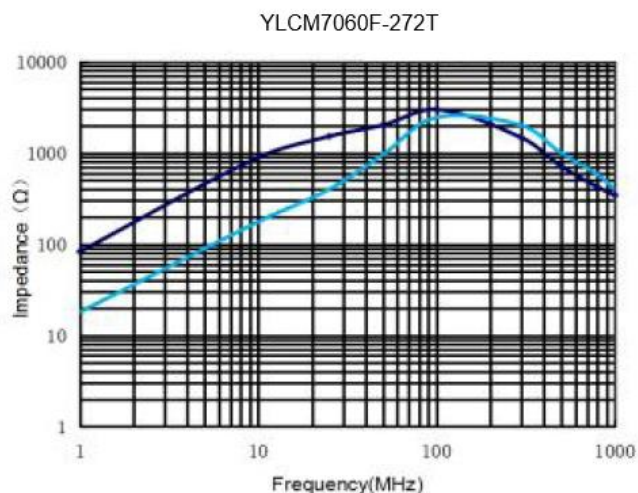
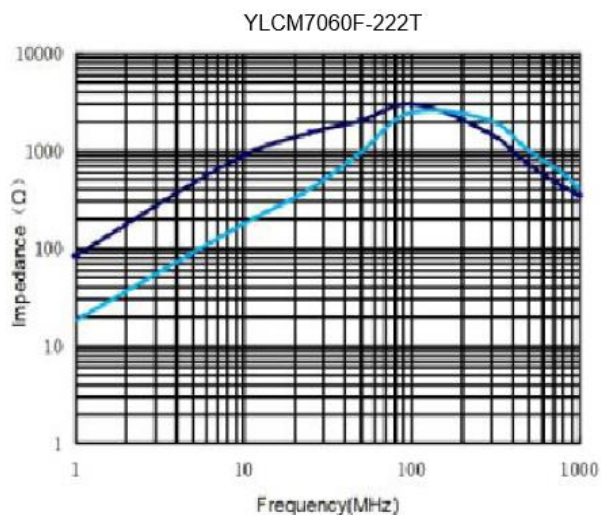
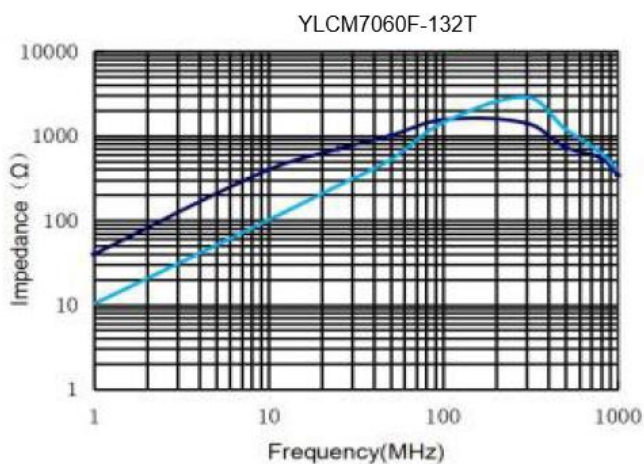
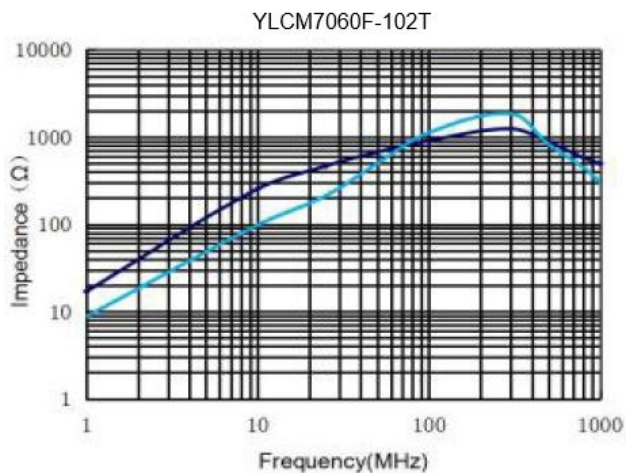
## ■ Material List

| NO. | ITEM     | DESCRIPTION |
|-----|----------|-------------|
| 1   | CORE     | FERRITE     |
| 2   | COVER    | LCP         |
| 3   | WIRE     | P180 Grd1   |
| 4   | ADHESIVE | EPOXY RESIN |
| 5   | SOLDER   | LEAD-FREE   |
| 6   | INK      | WHITE       |

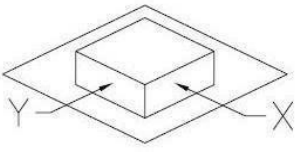
## ■ Characteristics(Reference)



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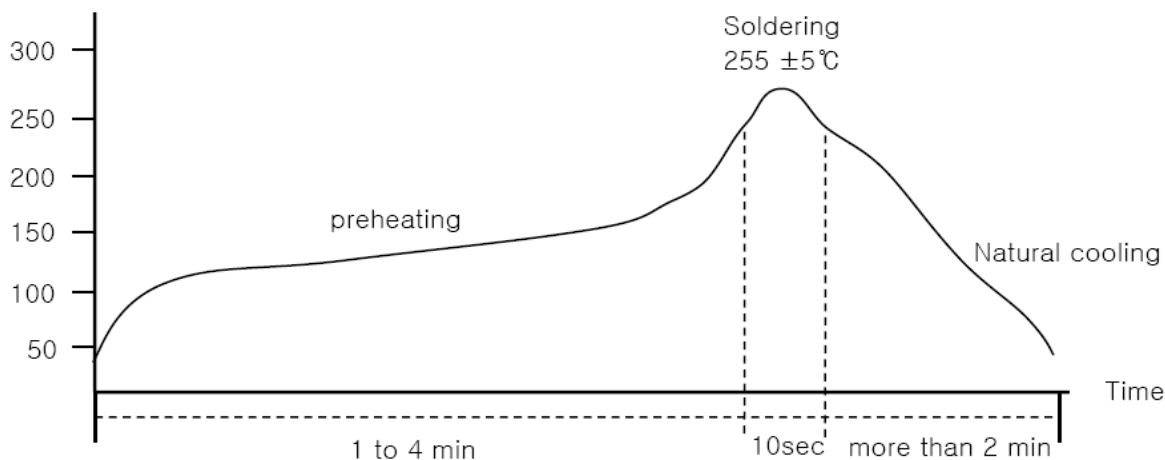


## ■ Reliability Testing

|                                                                                                        |                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature                                                                                  | - 40 to + 125 °C ( Contain Heating coil )                                                                                                                                                              |
| Appearance Inspection                                                                                  | No external defects by visual inspection                                                                                                                                                               |
| Terminal Strength<br> | After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec.<br>Terminal should not peel off. ( Refer to figure at right ) |
| Heat endurance of reflow soldering                                                                     | Refer to figure                                                                                                                                                                                        |
| Insulating resistance                                                                                  | Over 10 MΩ at 80V D.C . between wire and core .                                                                                                                                                        |
| Dielectric Strength                                                                                    | Apply at 0.5KV 1mA for 3S between wire and core .                                                                                                                                                      |
| Temperature characteristics                                                                            | Inductance coefficient ( 0~2,000 ) × 10 / °C ( -40 ~ + 125 °C )                                                                                                                                        |
| Humidity characteristics                                                                               | Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition .                                                                |
| A test is made under the above mentioned condition , and it is kept for 2 hours in the normal          |                                                                                                                                                                                                        |

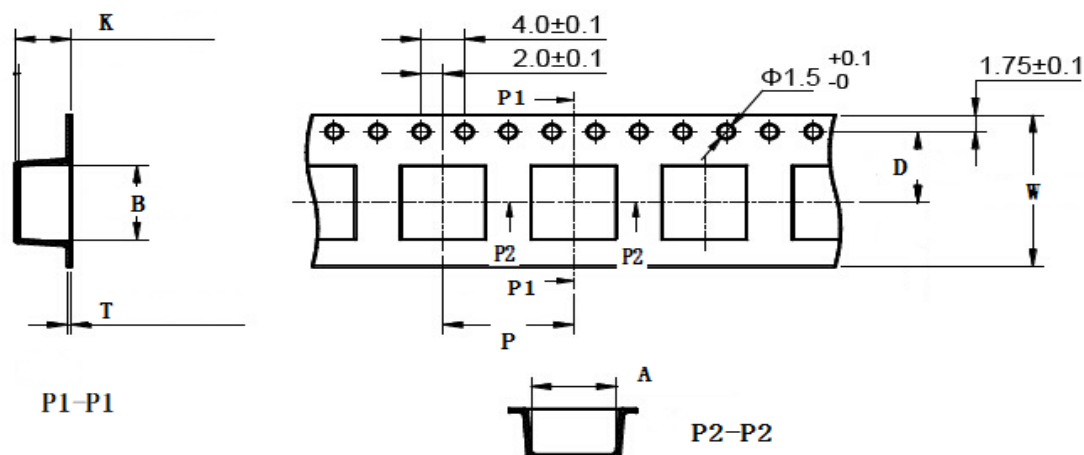
## ■ Recommended soldering temp.Graph

Temperature °C



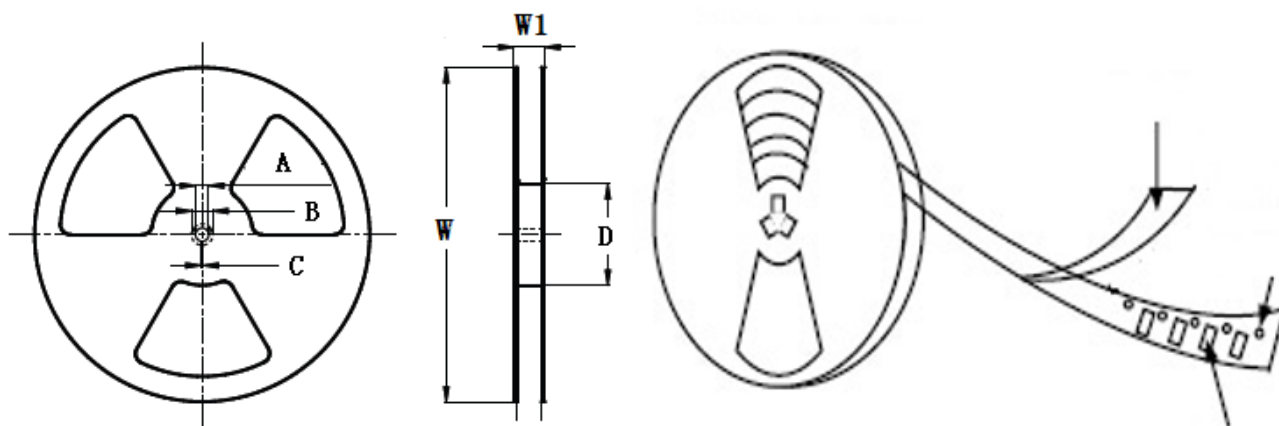
Temperature and humidity . After that , no mechanical and electrical defect should be found .

**■ Taping Dimensions(Unit:mm)**



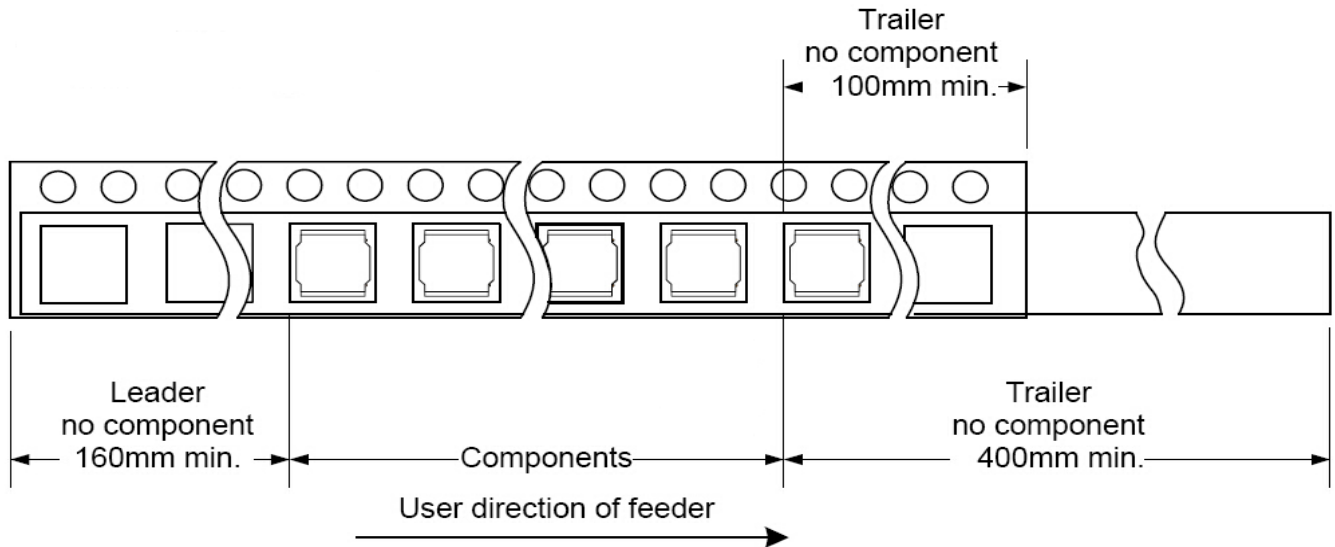
| TYPE      | W        | A       | B       | D       | P        | K       | T         | MPQ  |
|-----------|----------|---------|---------|---------|----------|---------|-----------|------|
| YLCM7060F | 16.0±0.3 | 6.9±0.1 | 8.4±0.1 | 7.5±0.1 | 12.0±0.1 | 4.2±0.1 | 0.40±0.05 | 1500 |

**■ Reel Dimensions(Unit:mm)**

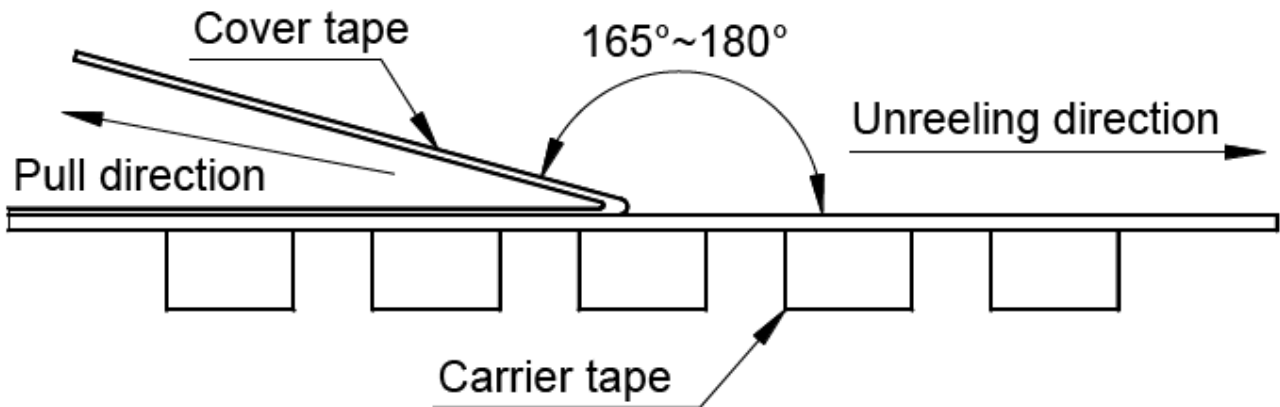


| TYPE      | W       | W1       | A         | B         | C        | D      |
|-----------|---------|----------|-----------|-----------|----------|--------|
| YLCM7060F | 330±2.0 | 16.4±2.0 | 13.0±0.50 | 21.0±0.80 | 2.0±0.50 | 100Min |

## ■ Direction of rolling



## ■ Cover tape peel off condition



Cover tape peel force shall be 0.1N to 1.3N.

Reference peel speed 300±10mm/min.