

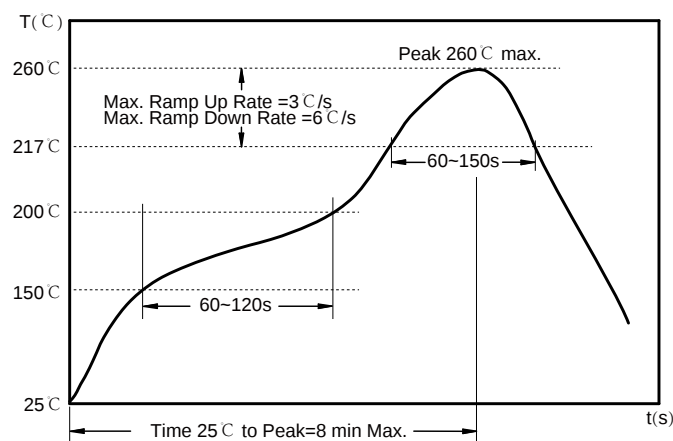


|  | (μH) |  |  |  | Saturation | Saturation | (mΩ) | (mΩ) |  |
|--|------|--|--|--|------------|------------|------|------|--|
|  |      |  |  |  |            |            |      |      |  |
|  |      |  |  |  |            |            |      |      |  |
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|  |      |  |  |  |            |            |      |      |  |
|  |      |  |  |  |            |            |      |      |  |
|  |      |  |  |  |            |            |      |      |  |

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is  $\Delta T=40^{\circ}\text{C}$

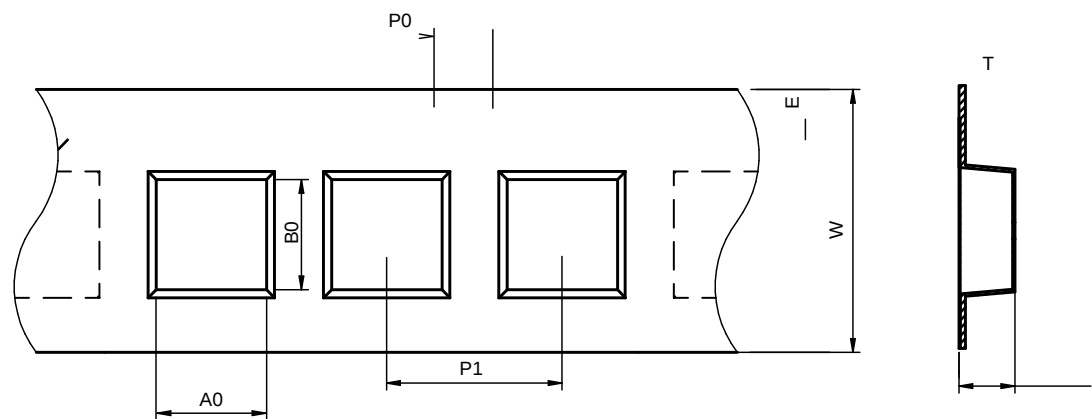
Soldering Reflow:



Preheat condition: 150 ~200°C / 60~120 sec.  
Allowed time above 217°C : 60~150 sec.  
Max temperature: 260°C .  
Max time at max temperature: 10 sec.  
Allowed Reflow time: 2x max.

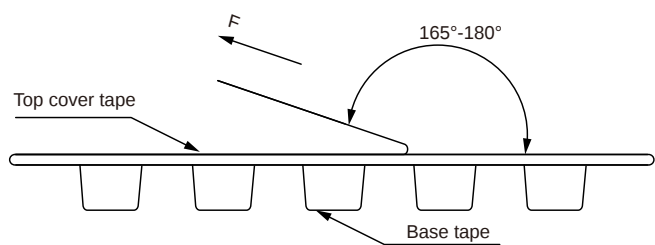
Packaging Information:

Tape Dimension:



| Series    | A0<br>(mm) | B0<br>(mm) | D<br>(mm) | P0<br>(mm) | P1<br>(mm) | W<br>(mm) | K0<br>(mm) | E<br>(mm) | T<br>(mm) |
|-----------|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| MDA6045HT | 7.0±0.1    | 7.7±0.1    | 1.5±0.1   | 4.0±0.1    | 12.0±0.1   | 16.0±0.3  | 4.9±0.1    | 1.75±0.1  | 0.40±0.05 |

Peel force of top cover tape:

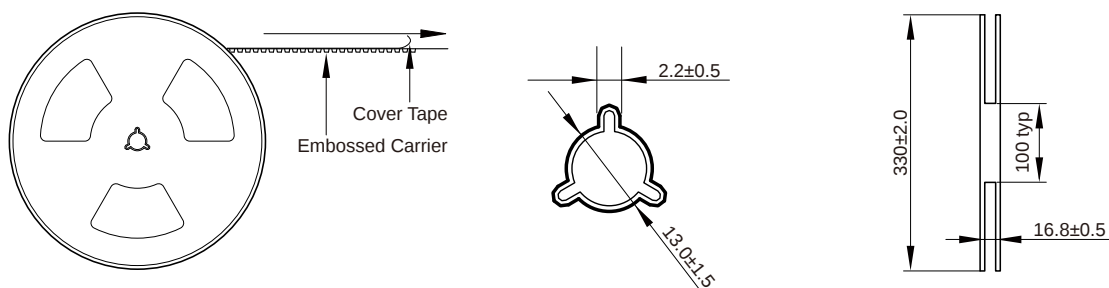


The peel force of top cover tape shall be between 0.1 to 1.3 N

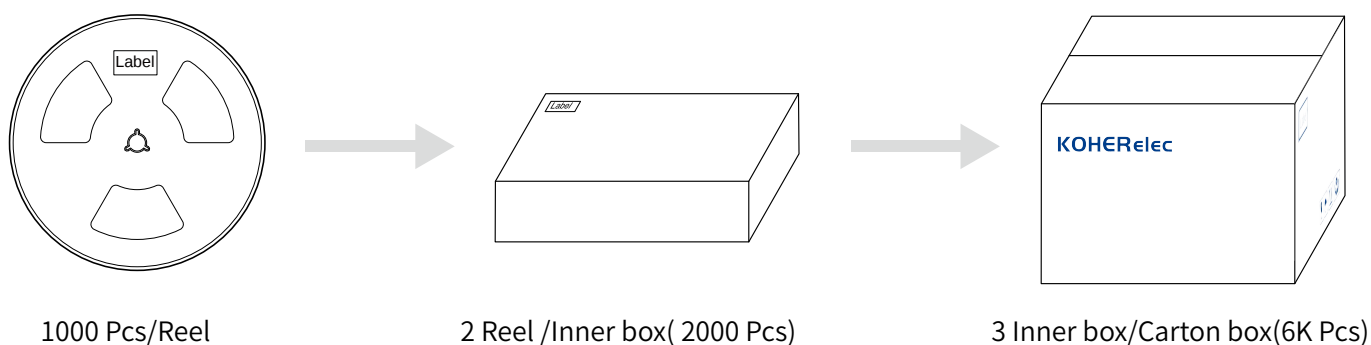
Product Marking:

|         |                                |
|---------|--------------------------------|
| Marking | K+Printing (Inductance+period) |
|---------|--------------------------------|

## Reel Dimension: [mm]



## Packaging Quantity:



## Cautions and Warnings:

### Storage Conditions:

- The storage period is within 12 months after the completion of production. Be sure to follow the storage conditions (temperature:  $-5$  to  $35^{\circ}\text{C}$ , humidity: 75% RH Max). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. The warranty period is one year.
- Product should not be exposed to environment with high temperature, high humidity, dust, corrosive gas and etc.
- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- Please always handle products carefully to prevent any damage caused by dropping down or inappropriate removing.

### Operation Instructions:

- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed  $150^{\circ}\text{C}$ .
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Generally, Koher might not be familiar with either customer's specific application or actual requests as customer does. As a result customer shall be responsible for checking and confirming whether Koher product with the performance described in the product specification is suitable for using in customer's particular application or not.