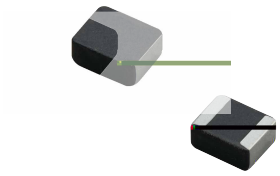
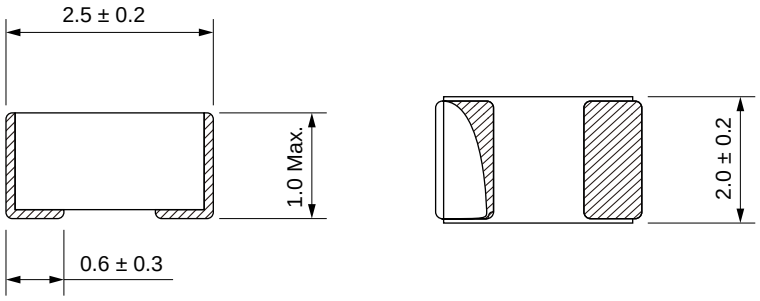
**MDE Series**
Molding Power Inductors
Size 252010



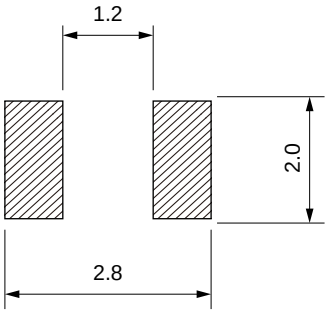
**APPLICATION**

- Generic in portable DC to DC converter line.
- Smart phone, PAD
- DC/DC converter
- Thin-type power supply module.

## Dimensions: [mm]



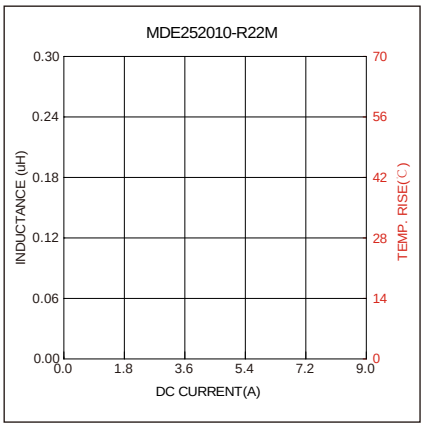

## Land Pattern: [mm]



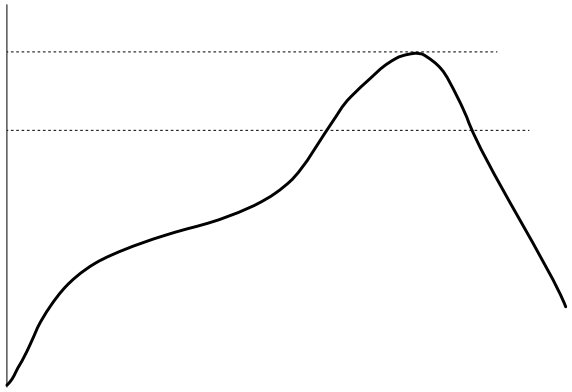

## Electrical Properties:

| Inductance @ 1MHz/1V | Tolerance | DC Resistance Typ. | DC Resistance Max. | Current Typ. | Current Max. | Temperature Rise Current Typ. | Temperature Rise Current Max. |
|---|---|---|---|---|---|---|---|
| | ±20% | 9 | 12.5 | 7.9 | 7.20 | 5.90 | 5.30 |
| | ±20% | 21 | 26.0 | 6.6 | 6.00 | 4.40 | 4.00 |
| | ±20% | 27 | 32.0 | 5.0 | 4.50 | 3.90 | 3.51 |
| | ±20% | 37 | 44.0 | 4.3 | 3.87 | 3.40 | 3.06 |
| | ±20% | 45 | 54.0 | 3.5 | 3.15 | 3.00 | 2.70 |
| | ±20% | 76 | 91.0 | 2.6 | 2.34 | 2.50 | 2.25 |
| | ±20% | 99 | 119 | 2.4 | 2.16 | 2.30 | 2.07 |
| | ±20% | 220 | 262 | 1.8 | 1.62 | 1.36 | 1.22 |

# Typical Electrical Characteristics:



## Soldering Reflow:



Preheat condition: 150 ~200℃/ 60~180 sec.

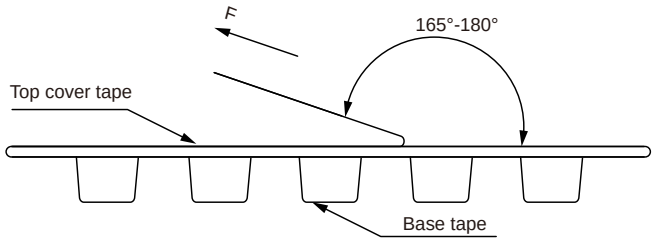
Allowed time above 217℃: 60~150 sec.

Max temperature: 260℃.

## Packaging Information:

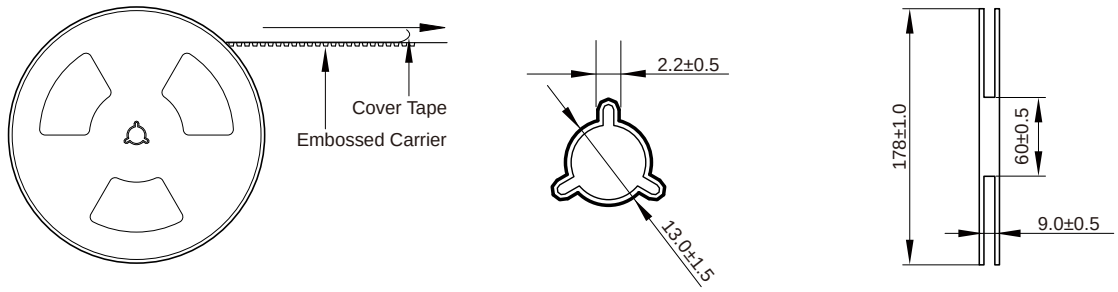
Tape Dimension:

Peel force of top cover tape:

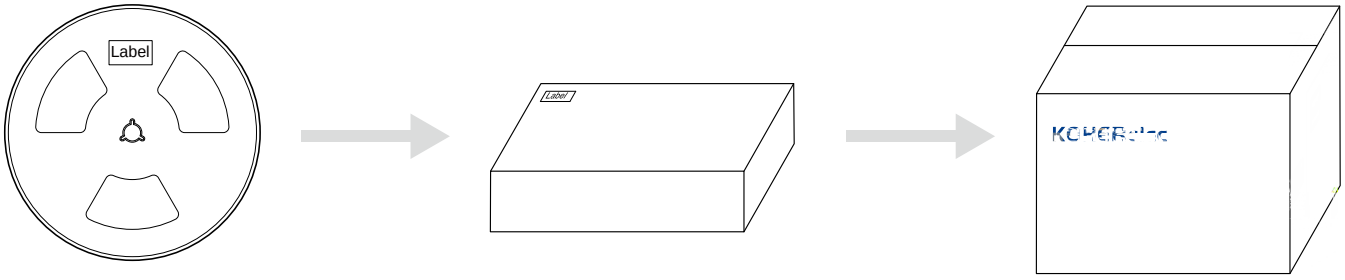



The peel force of top cover tape shall be between 0.1 to 1.3 N

## Reel Dimension：[mm]




## Packaging Quantity:




3000 Pcs/Reel　　5 Reel /Inner box( 15K Pcs)　　8 Inner box/Carton box(120K Pcs)

# 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°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°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.