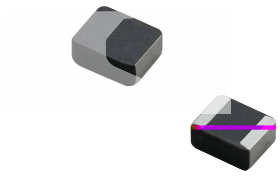
# MDE Series

Molding Power Inductors

Size 252010



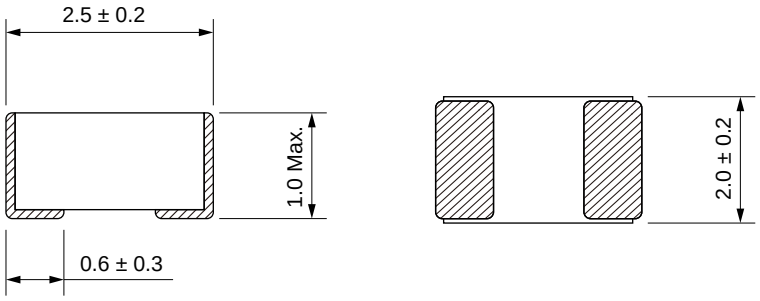
## FEATURES

- High satura on current realized by material proper es
- Low DC resistance to achieve high conversion e ciency
- Low Profile.
- Magne cally shielded structure to accomplish high resolu on in EMC protec on.
-
- Opera ng temperature: -40 to +125 °C
- Quan ty: 3000PCS

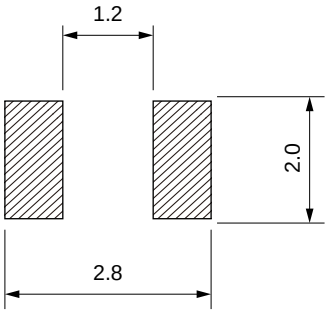
## APPLICATION

-
-
-
-

## Dimensions: [mm]




## Land Pattern: [mm]




## Electrical Properties:

| Part No | Inductance @ 1MHz/1V (µH) | Tolerance | DC Resistance Typ. (mΩ) | DC Resistance Max. (mΩ) | Saturation Current Typ. (A) | Saturation Current Max. (A) | Temperature Rise Current Typ. (A) | Temperature Rise Current Max. (A) |
|---|---|---|---|---|---|---|---|---|
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Temperature rising current will cause the coil temperature approximate ΔT40 °C

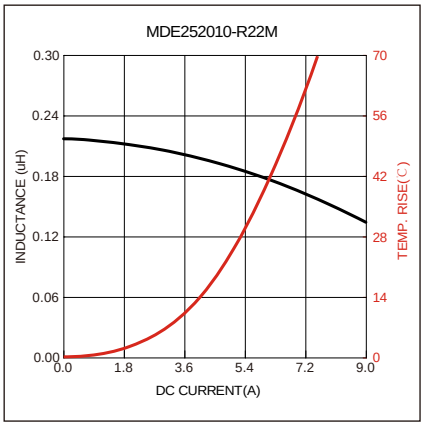
Satura on current will cause to drop approximately 30 %

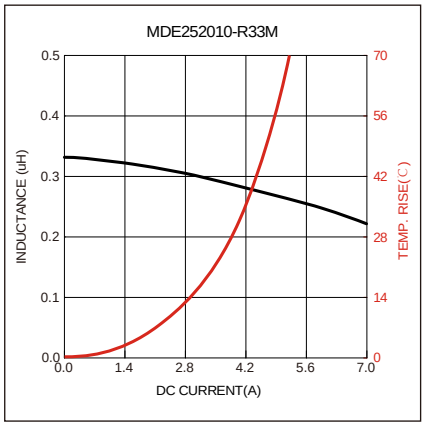

KOHER Electronics

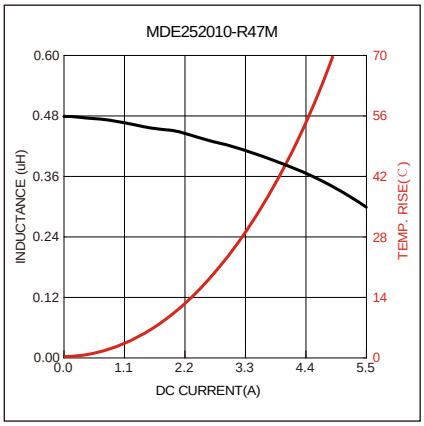
F9, No. 4188, Huaning Rd, Minhang District, Shanghai

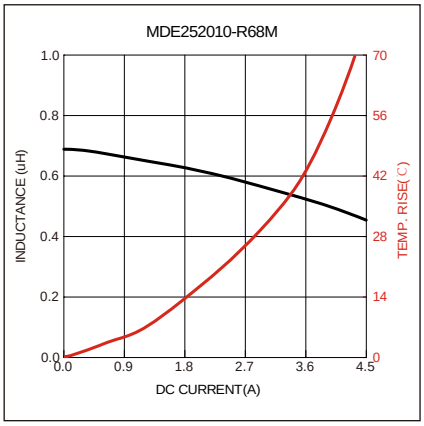
021-34753361 Contact@kohergroup.com

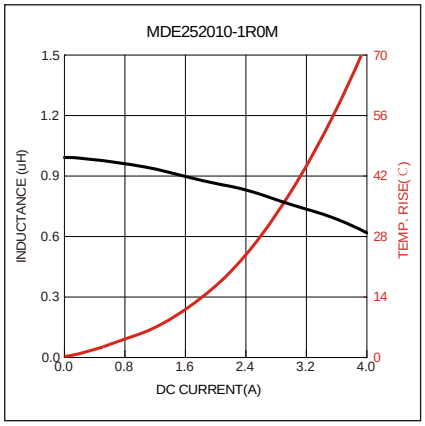
# Typical Electrical Characteristics:

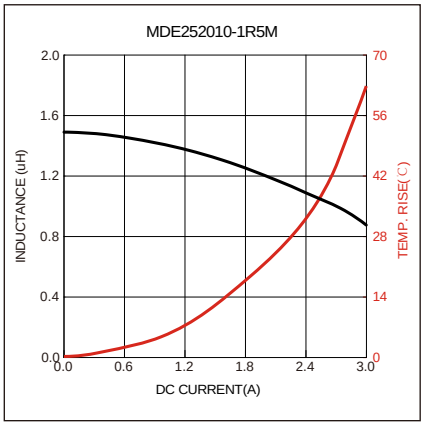


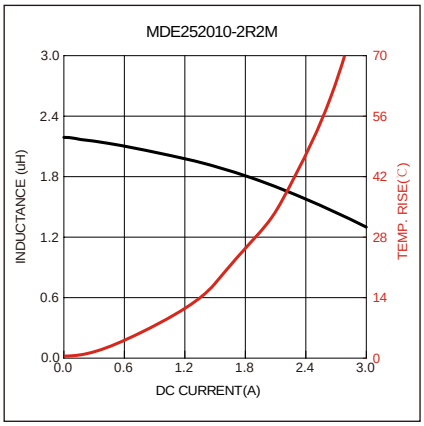



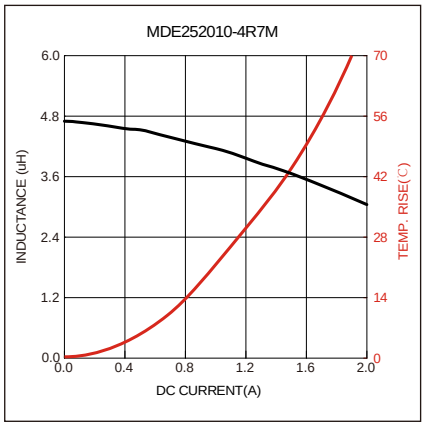



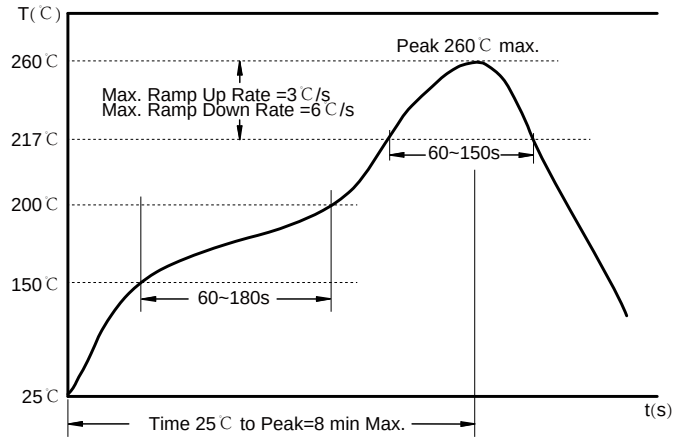



## Soldering Reflow:




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

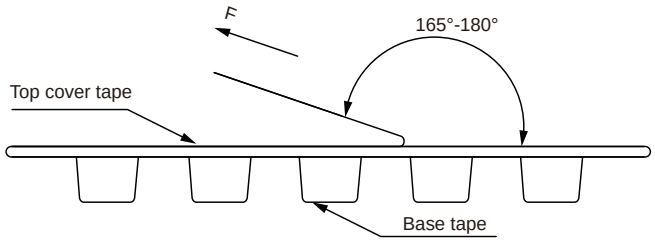
Allowed time above 217℃: 60~150 sec.

Max temperature: 260℃.

## Packaging Information:

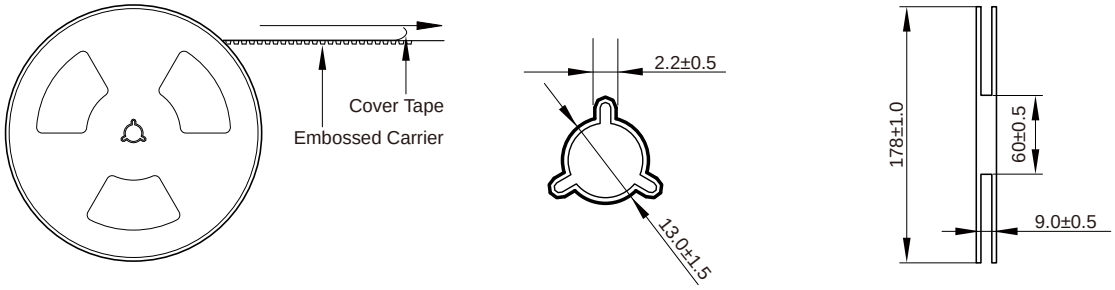
Tape Dimension:

Peel force of top cover tape:

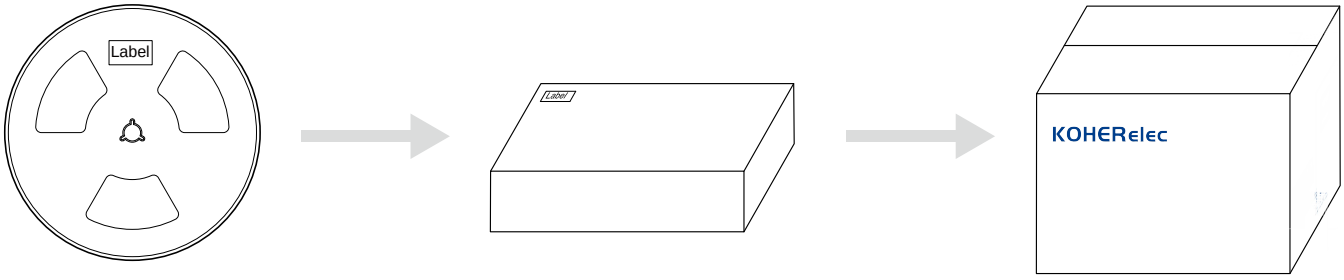



The peel force of top cover tape shall be between 0.1 to 1.3 N

## 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.