

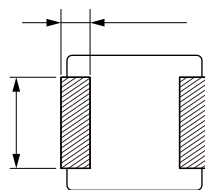
# MDA HT Series

## SMD Low Profile High Current Molded Inductor

### Size 4020

Dimensions: [mm]

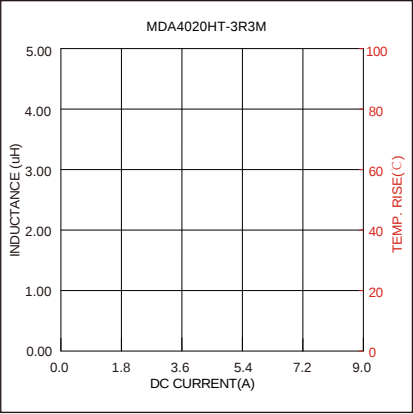
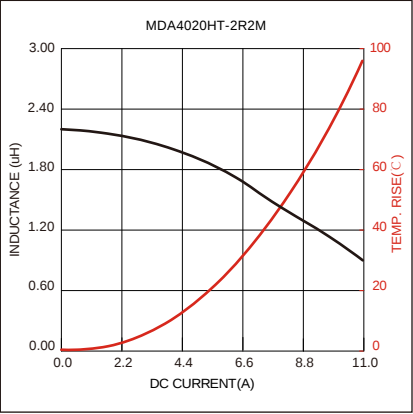
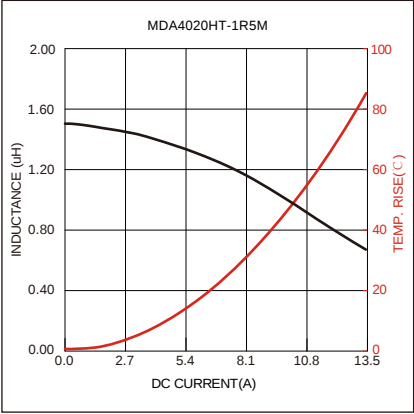
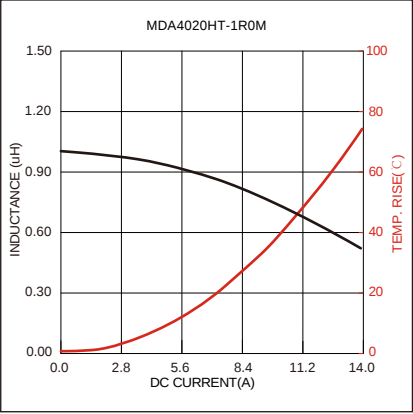
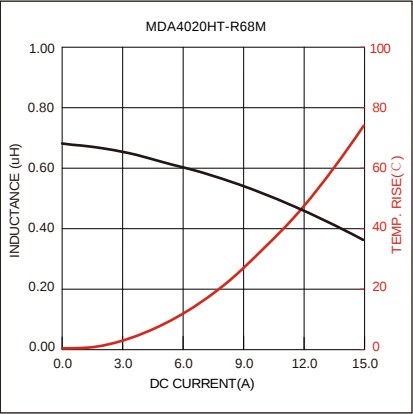
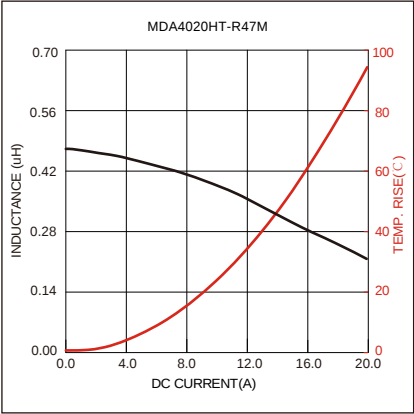
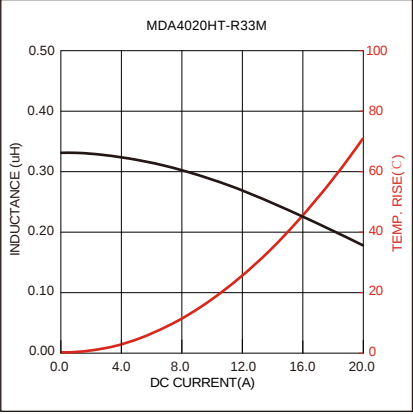
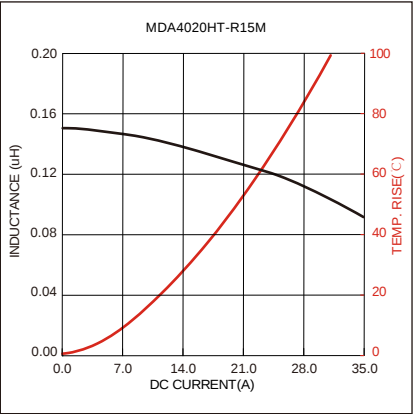
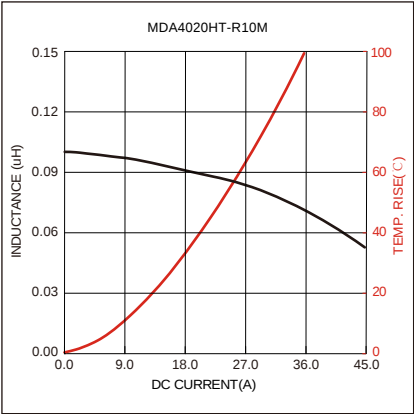
Land Pattern: [mm]

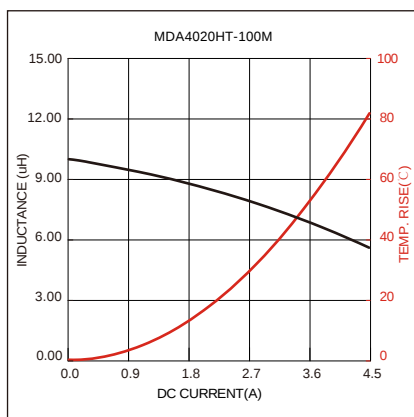
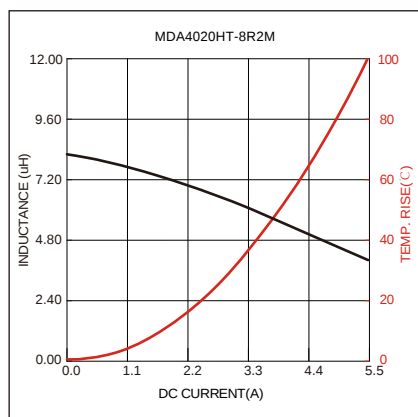
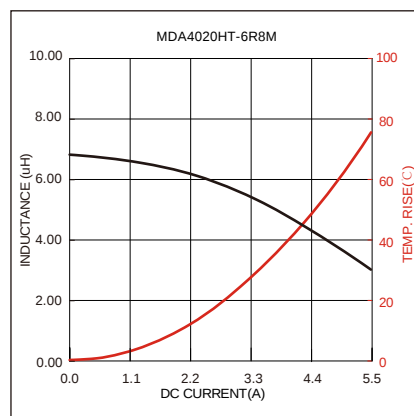
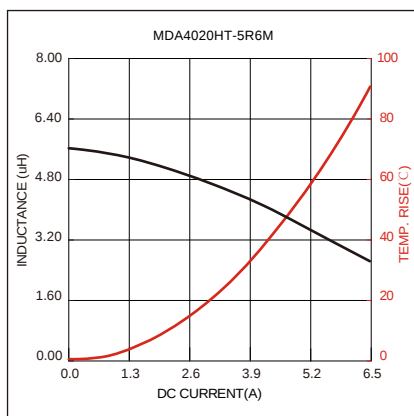
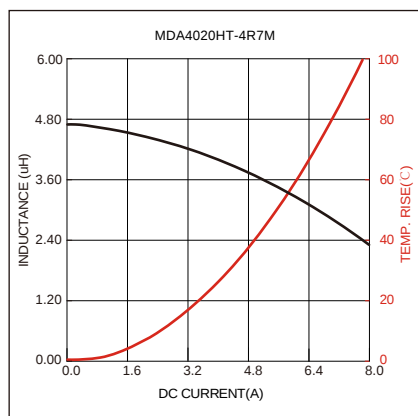


Electrical Properties:

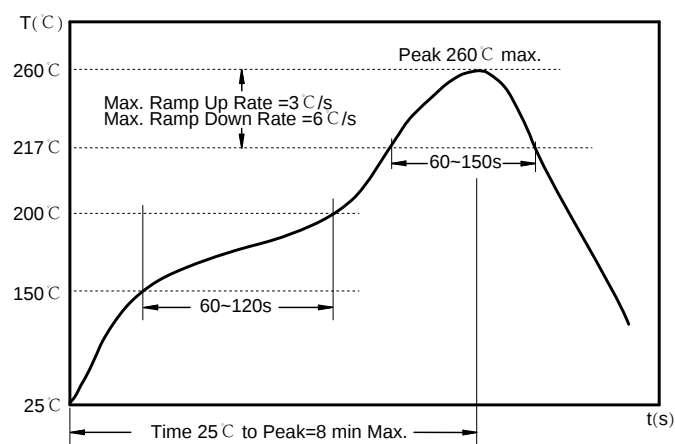
| Part No        | Inductance<br>@ 1d[0@/1V | Tolerance | Temperature<br>Rise Current<br>Typ.<br>(A) | Satura on<br>Current<br>Typ.<br>(A) | DC<br>Resistance<br>Typ.<br>(mΩ) | DC<br>Resistance<br>Max.<br>(mΩ) |
|----------------|--------------------------|-----------|--------------------------------------------|-------------------------------------|----------------------------------|----------------------------------|
| MDA4020HT-R10M |                          | ±20%      | 19.0                                       | 32.2                                | 1.9                              | 2.3                              |
| MDA4020HT-R15M |                          | ±20%      | 16.5                                       | 26.2                                | 3.1                              | 3.8                              |
| MDA4020HT-R33M |                          | ±20%      | 15.0                                       | 13.3                                | 5.0                              | 5.8                              |
| MDA4020HT-R47M |                          | ±20%      | 13.0                                       | 11.3                                | 6.0                              | 7.2                              |
| MDA4020HT-R68M |                          | ±20%      | 11.0                                       | 10.2                                | 8.2                              | 9.9                              |
| MDA4020HT-1R0M |                          | ±20%      | 10.0                                       | 10.0                                | 11.5                             | 13.8                             |
| MDA4020HT-1R5M |                          | ±20%      | 9.0                                        | 9.0                                 | 15.4                             | 18.5                             |
| MDA4020HT-2R2M |                          | ±20%      | 7.2                                        | 6.4                                 | 25.0                             | 30.0                             |
| MDA4020HT-3R3M |                          | ±20%      | 5.5                                        | 6.3                                 | 41.0                             | 49.2                             |

Typical Electrical Characteristics:





Soldering Reflow:



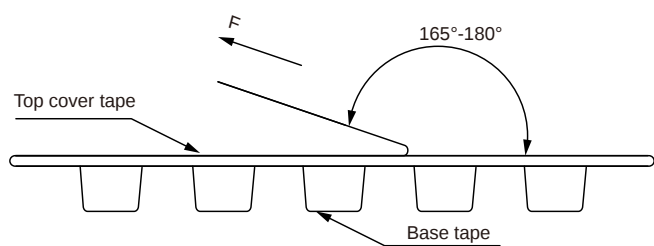
Preheat condition:  $150 \sim 200^{\circ}\text{C} / 60 \sim 120 \text{ sec.}$   
Allowed time above  $217^{\circ}\text{C}$ : 60~150 sec.  
Max temperature:  $260^{\circ}\text{C}$ .  
Allowed Reflow time: 3x max.

Packaging Information:

Tape Dimension :

| Series | A0<br>(mm) | B0<br>(mm) |
|--------|------------|------------|
|--------|------------|------------|

Peel force of top cover tape:

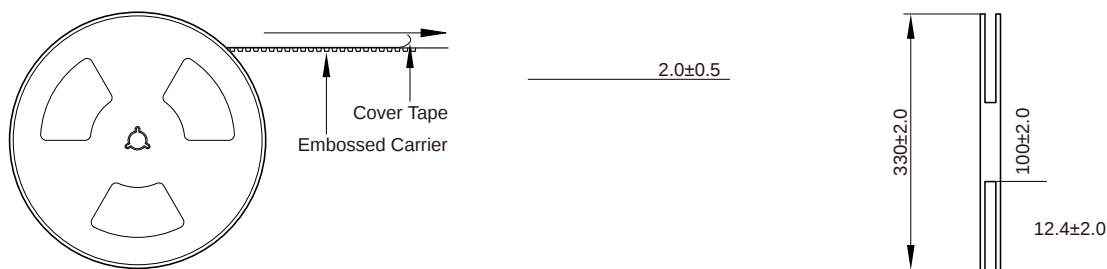


The peel force of top cover tape shall be between 0.1 to 1.3 N

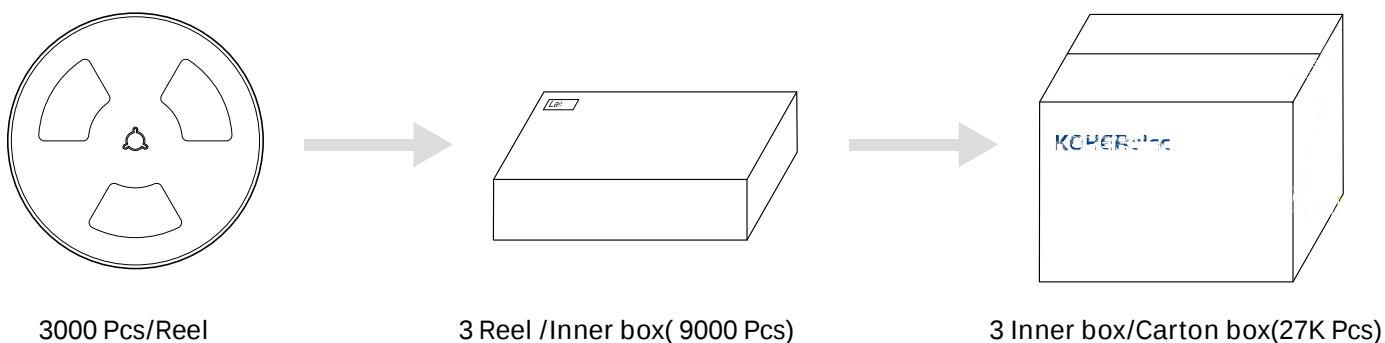
Product Marking:

|         |                      |
|---------|----------------------|
| Marking | Printing Inductance) |
|---------|----------------------|

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°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.