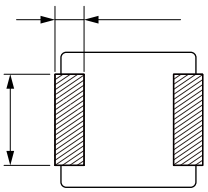
**MDA HT Series**
SMD Low Profile High Current Molded Inductor
Size 4020

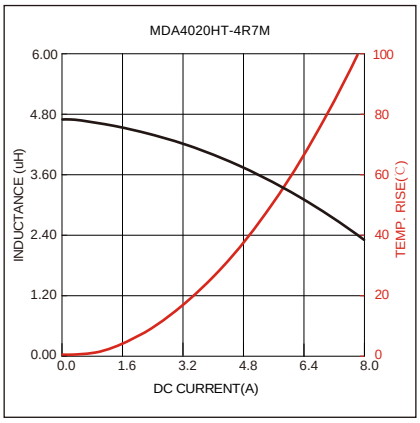
Dimensions: [mm]

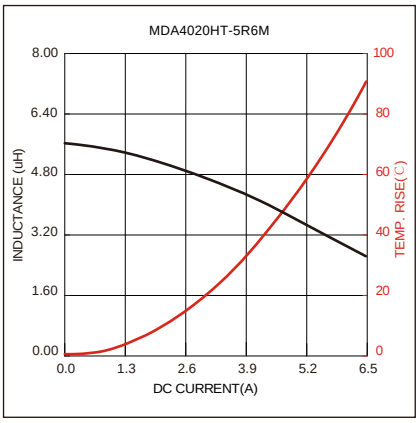
Land Pattern: [mm]

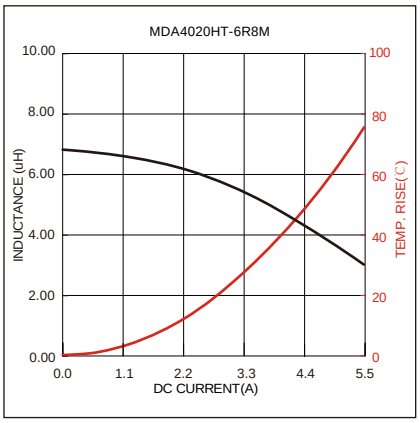


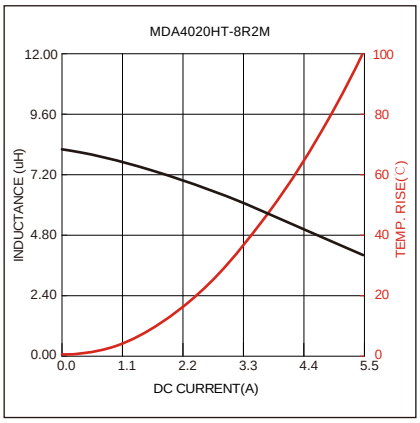
Electrical Properties:

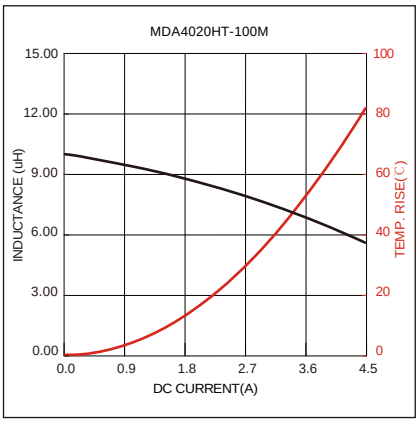
| Part No | Inductance @ 1d[0@/1V | Tolerance | Temperature Rise Current Typ. | Current Typ. | DC Resistance Typ. | DC Resistance Max. |
|---|---|---|---|---|---|---|
| MDA4020HT-R10M | | ±20% | 19.0 | 32.2 | 1.9 | 2.3 |
| MDA4020HT-R15M | | ±20% | 16.5 | 26.2 | 3.1 | 3.8 |
| MDA4020HT-R33M | | ±20% | 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 |


MDA4020HT-4R7M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
6.00
4.80
3.60
2.40
1.20
0.00
100
80
60
40
20
0
0.0
1.6
3.2
4.8
6.4
8.0

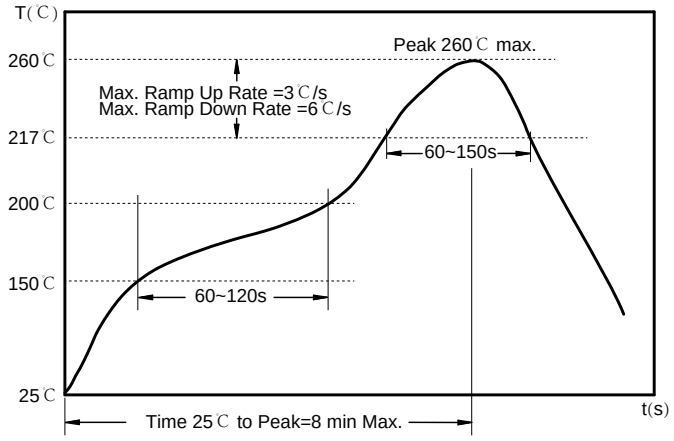

MDA4020HT-5R6M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
8.00
6.40
4.80
3.20
1.60
0.00
100
80
60
40
20
0
0.0
1.3
2.6
3.9
5.2
6.5


MDA4020HT-6R8M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
10.00
8.00
6.00
4.00
2.00
0.00
100
80
60
40
20
0
0.0
1.1
2.2
3.3
4.4
5.5


MDA4020HT-8R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
12.00
9.60
7.20
4.80
2.40
0.00
100
80
60
40
20
0
0.0
1.1
2.2
3.3
4.4
5.5


MDA4020HT-100M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
15.00
12.00
9.00
6.00
3.00
0.00
100
80
60
40
20
0
0.0
0.9
1.8
2.7
3.6
4.5

## Soldering Reflow:




Preheat condition: 150 ~200℃/ 60~120 sec.

Allowed time above 217℃: 60~150 sec.

Max temperature: 260℃.

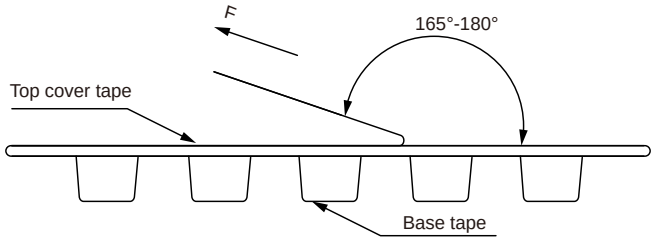
Allowed Reflow time: 3x max.

## Packaging Information:

Tape Dimension:

| Series | A0 (mm) | B0 (mm) |
|---|---|---|

Peel force of top cover tape:

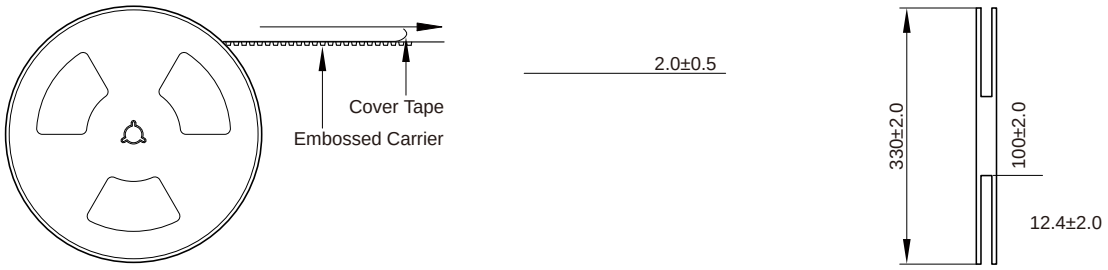



The peel force of top cover tape shall be between 0.1 to 1.3 N

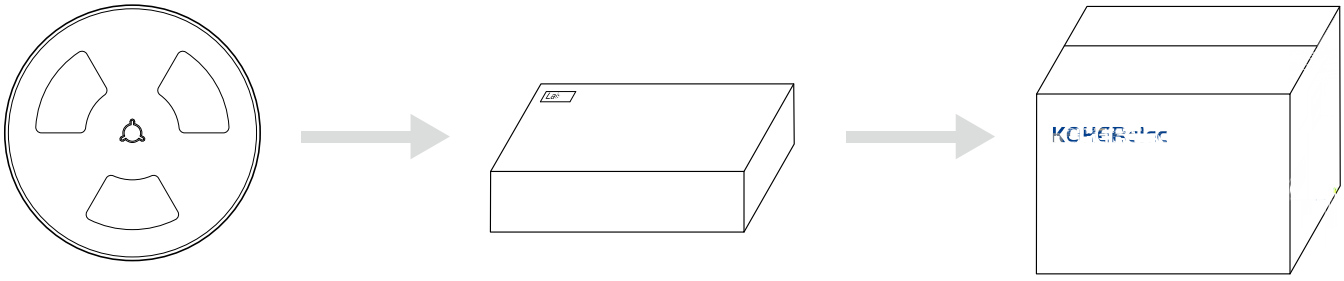
Product Marking:

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

## Reel Dimension：[mm]




## Packaging Quantity:



3000 Pcs/Reel

3 Reel /Inner box( 9000 Pcs)

3 Inner box/Carton box(27K 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.