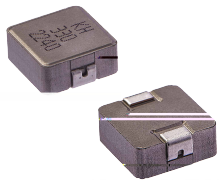
MDA Series

SMD Low Profile High Current Molded Inductor

Size 1050



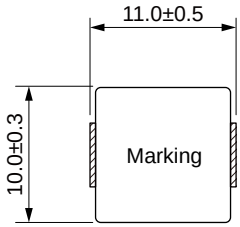
FEATURES

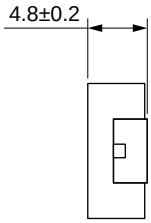
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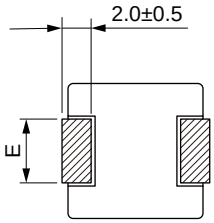
APPLICATION

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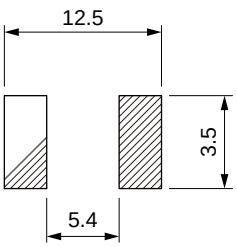
Dimensions: [mm]







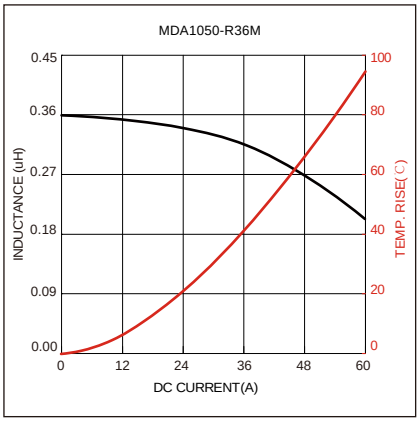
Land Pattern: [mm]

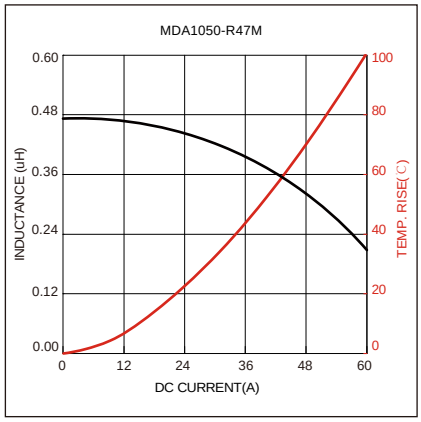


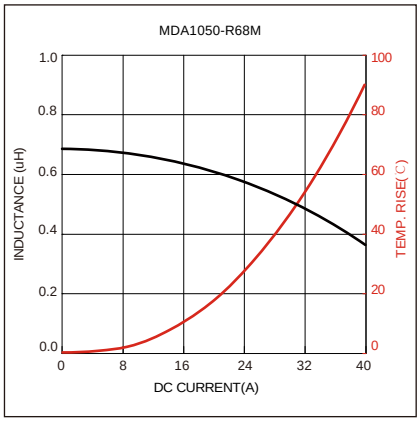
Electrical Properties:

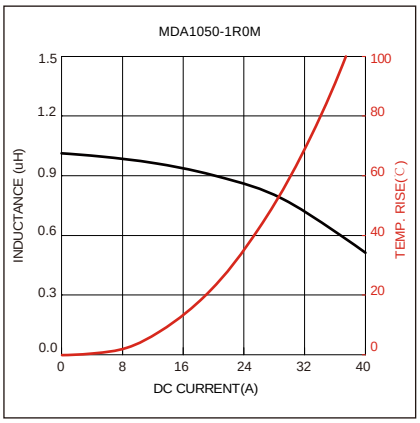
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

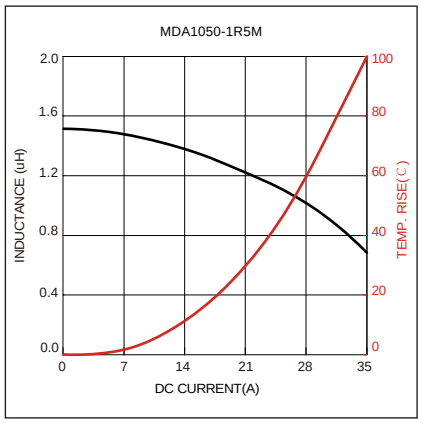
Typical Electrical Characteristics:

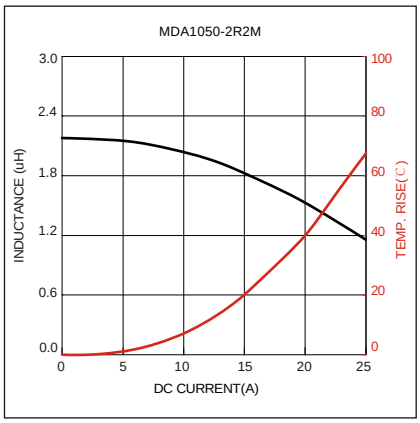


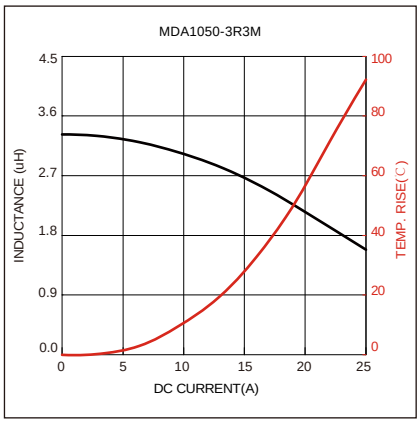


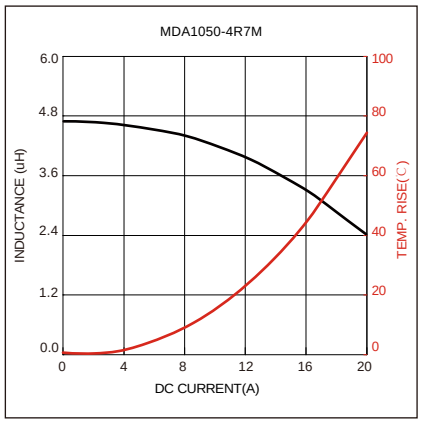


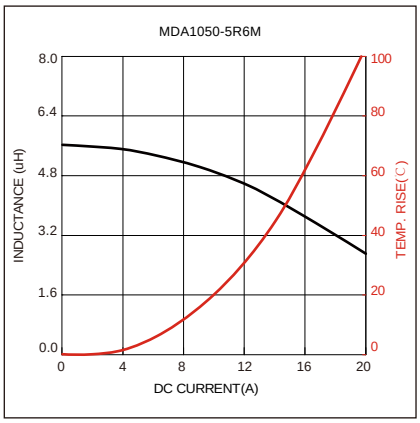


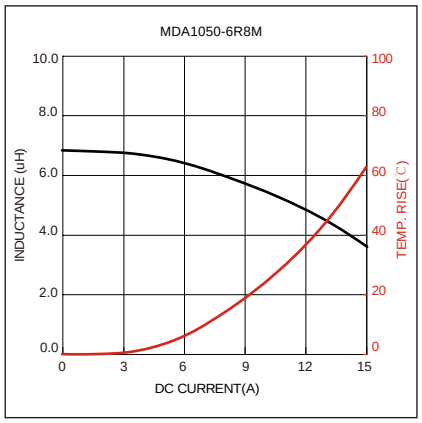


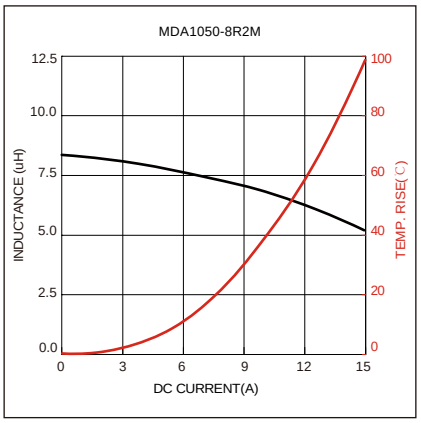


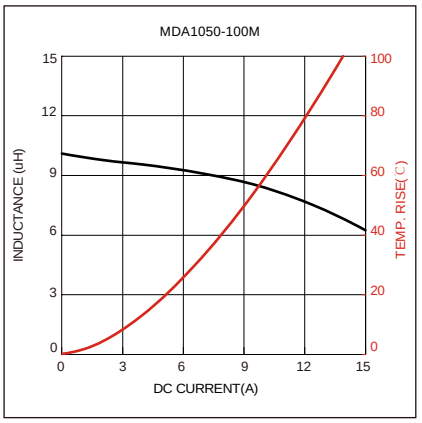


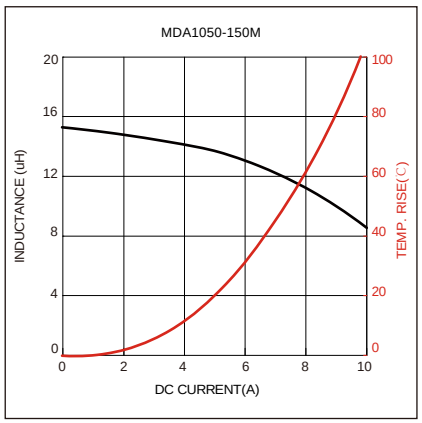


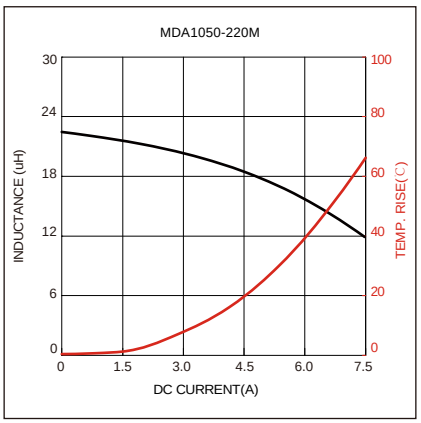


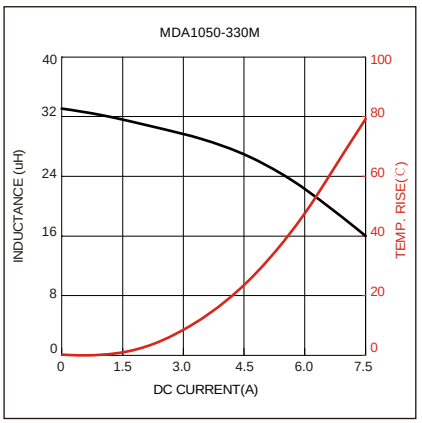

MDA1050-6R8M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
10.0
8.0
6.0
4.0
2.0
0.0
100
80
60
40
20
0
0
3
6
9
12
15

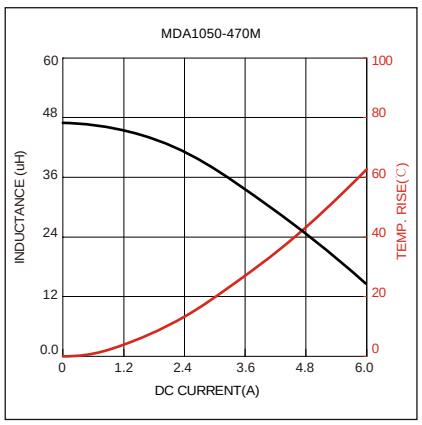

MDA1050-8R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
12.5
10.0
7.5
5.0
2.5
0.0
100
80
60
40
20
0
0
3
6
9
12
15


MDA1050-100M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
15
12
9
6
3
0
100
80
60
40
20
0
0
3
6
9
12
15

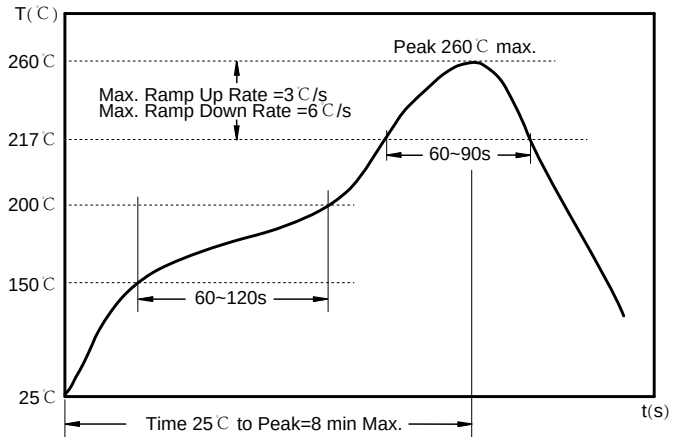

MDA1050-150M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
20
16
12
8
4
0
100
80
60
40
20
0
0
2
4
6
8
10


MDA1050-220M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
30
24
18
12
6
0
100
80
60
40
20
0
0
1.5
3.0
4.5
6.0
7.5


MDA1050-330M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
40
32
24
16
8
0
100
80
60
40
20
0
0
1.5
3.0
4.5
6.0
7.5


MDA1050-470M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
60
48
36
24
12
0.0
100
80
60
40
20
0
0
1.2
2.4
3.6
4.8
6.0

Soldering Reflow:



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

Allowed time above 217℃: 60~90 sec.

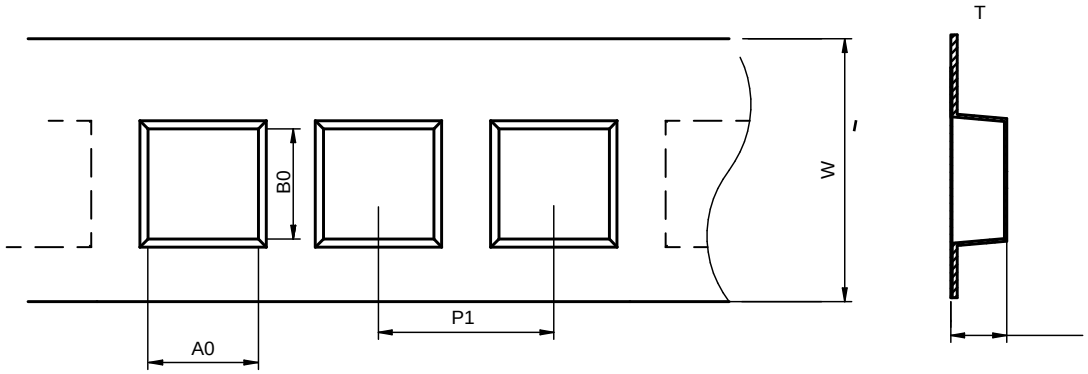
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

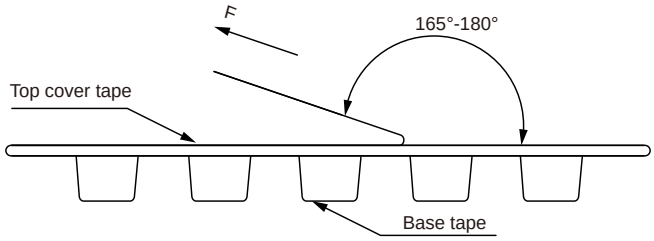
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDA1050	10.4 ± 0.1	11.6 ± 0.1	1.5 ± 0.1	4.0 ± 0.1	16.0 ± 0.1	24.0 ± 0.3	5.4 ± 0.1	1.75 ± 0.1	0.40 ± 0.05

Peel force of top cover tape:

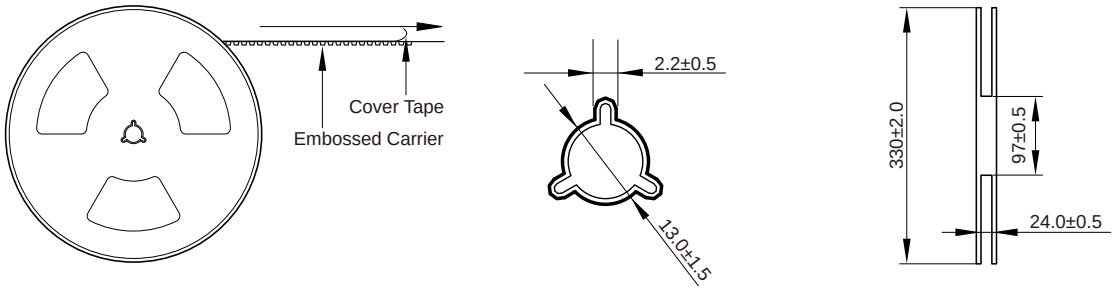


The peel force of top cover tape shall be between 0.1 to 1.3 N

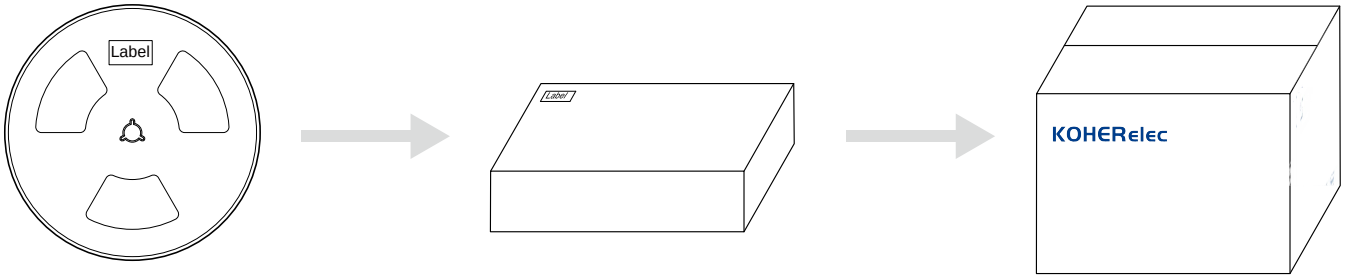
Product Marking:

Marking	KH+Printing Inductance+period)

Reel Dimension：[mm]



Packaging Quantity:



500 Pcs/Reel

2 Reel /Inner box(1000 Pcs)

3 Inner box/Carton box(3K 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.