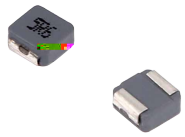
MDA HT Series

SMD Low Profile High Current Molded Inductor

Size 4020



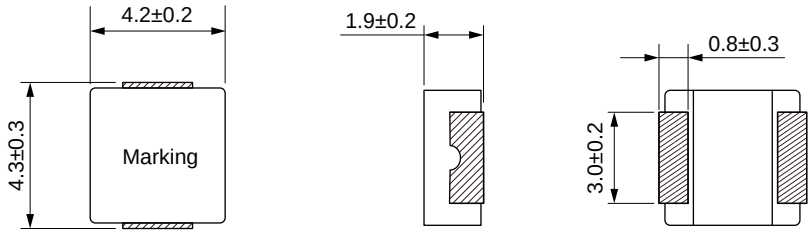
FEATURES

-
- ¦ fúNl· f2ø ōdzÎÎ y2ƛãŜΣ ŘdzŜ ú2 Ŏ2Y˙LJ2ăƛúŜ Ŏ2yăúNdzŎə2y˙
-
-
- ! 9/πvнллlljdzl·fΛŬŜŘ
- hLJŜNl·əyƎ úŜY˙LJŜNl·údzNŜY πpp ú2 ьмpp c/ óƛyŎftdzŘƛyƎ ăŜf₣πúŜY˙LJŜNl·údzNŜ NƛăŜú
- vdzl·yəúёY олллt/{

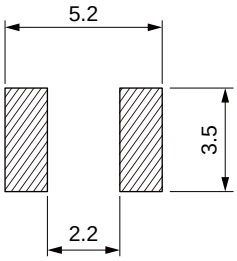
APPLICATION

- l Ŝl·Řfl·Y˙LJăΣ ű̂l·ƛf fl·Y˙LJă l·yŘ ƛyúŜNƛ2N fƛƎKəyƎ
-
- 522NăΣ øƛyŘ2ø fΛD l·yŘ ăŜl·ű Ŏ2yúN2f
-
-
- Ly₸±ŜKƛŎfŜ Ly₣2ű̂l·ƛyY˙Ŝyú l·yŘ yl·ØƛƎl·ə2y˙

Dimensions: [mm]



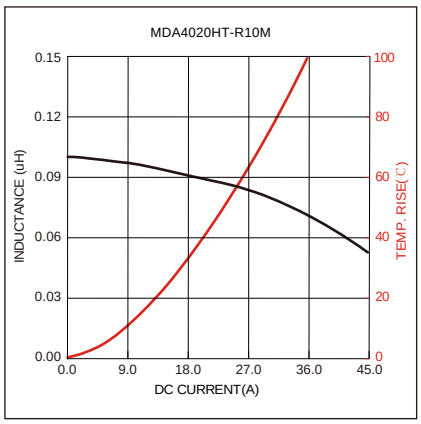
Land Pattern: [mm]

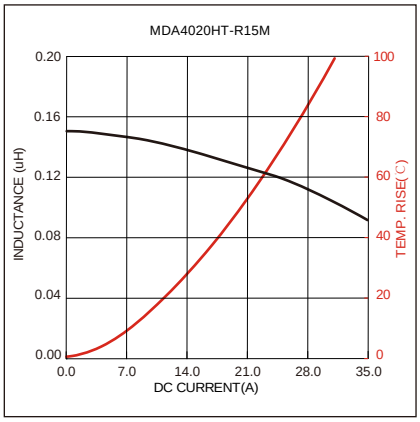


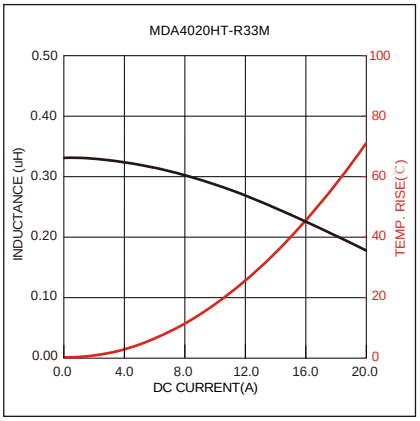
Electrical Properties:

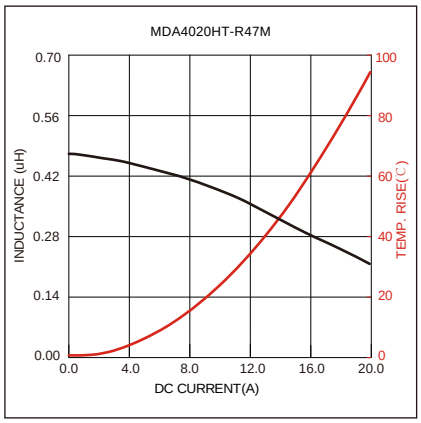
	(μH)		(A)	(A)	Satura on (A)	Satura on (A)	(mΩ)	(mΩ)

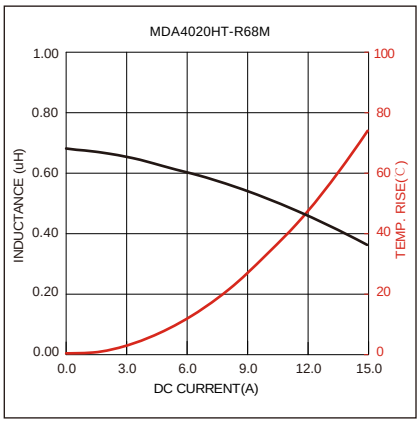
Typical Electrical Characteristics:

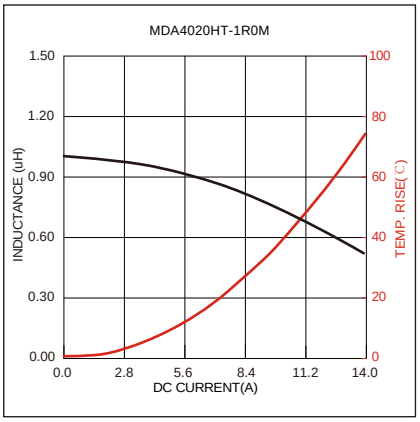


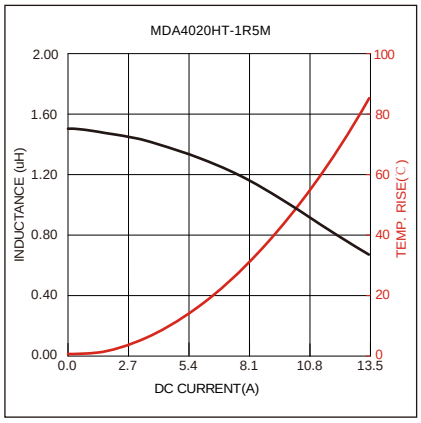


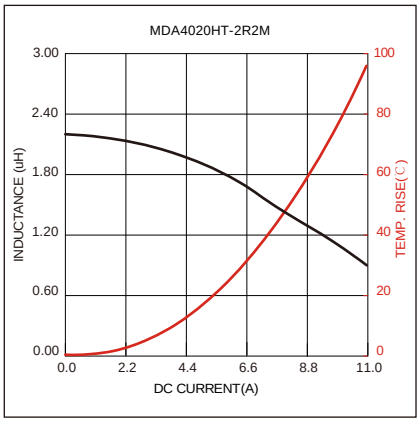


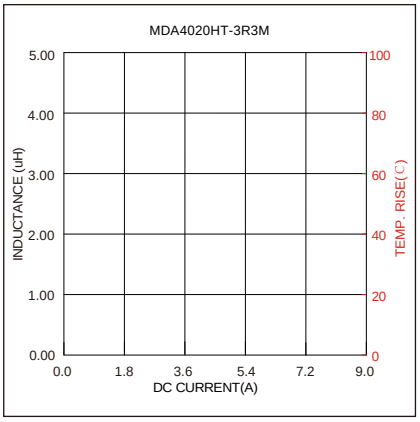


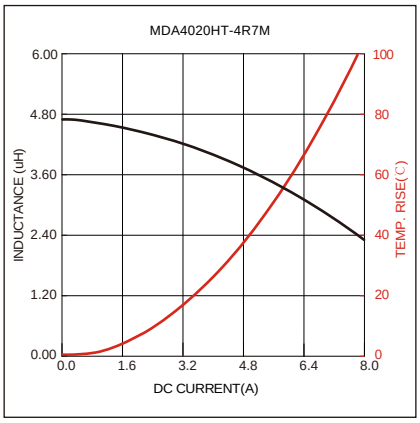


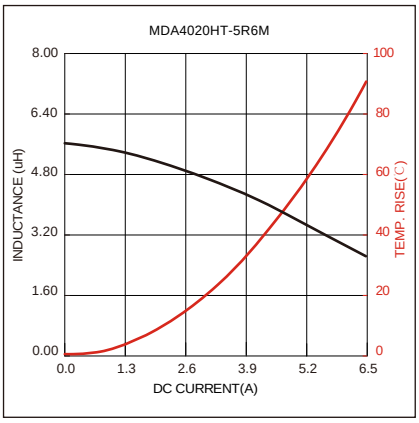


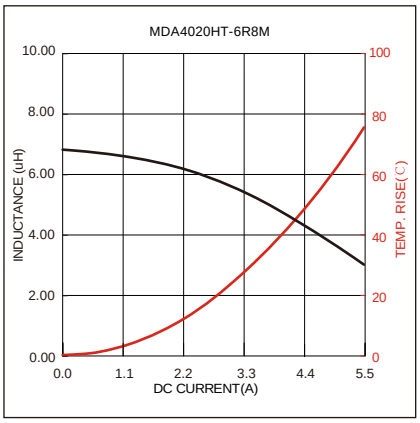


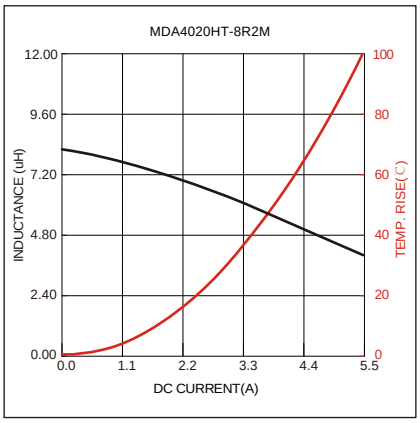


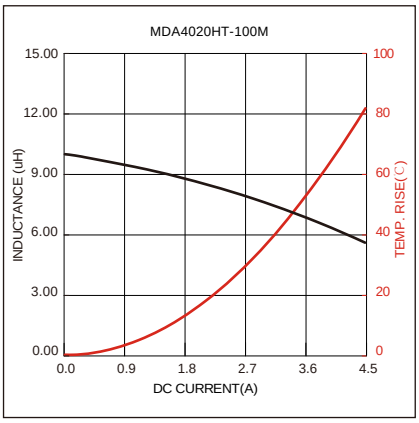



MDA4020HT-4R7M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
6.00
4.80
3.60
2.40
1.20
0.00
100
80
60
40
20
0
0.0
1.6
3.2
4.8
6.4
8.0

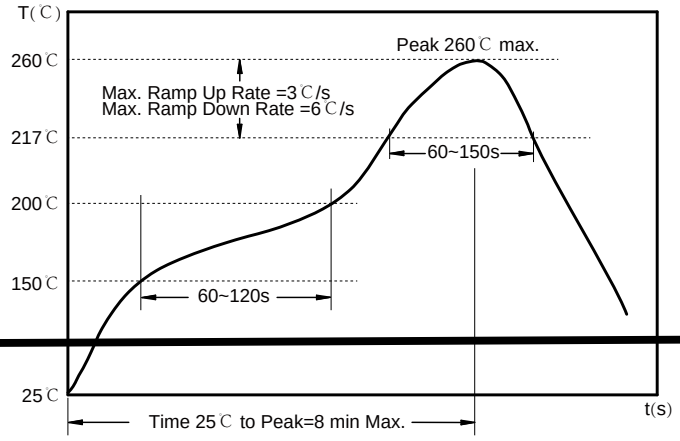

MDA4020HT-5R6M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
8.00
6.40
4.80
3.20
1.60
0.00
100
80
60
40
20
0
0.0
1.3
2.6
3.9
5.2
6.5


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.

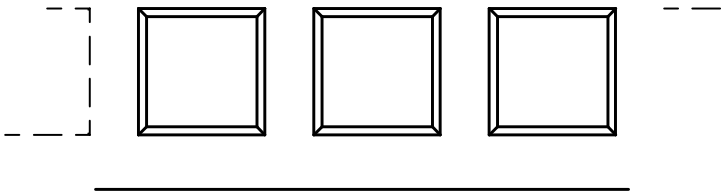
Allowed time above 217℃: 60~150 sec.

Max temperature: 260℃.

Allowed Reflow time: 3x max.

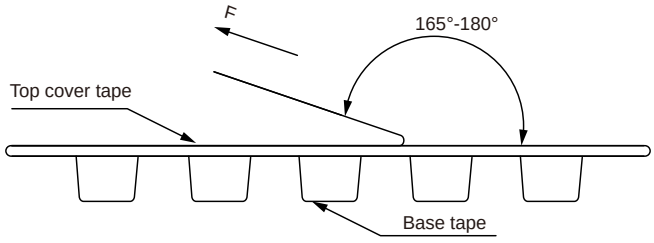
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)
MDA4020HT	4.6 ± 0.1	4.9 ± 0.1	1.5 ± 0.1	4.0 ± 0.1	8.0 ± 0.1	12 ± 0.3	2.3 ± 0.1	1.75 ± 0.1

Peel force of top cover tape:

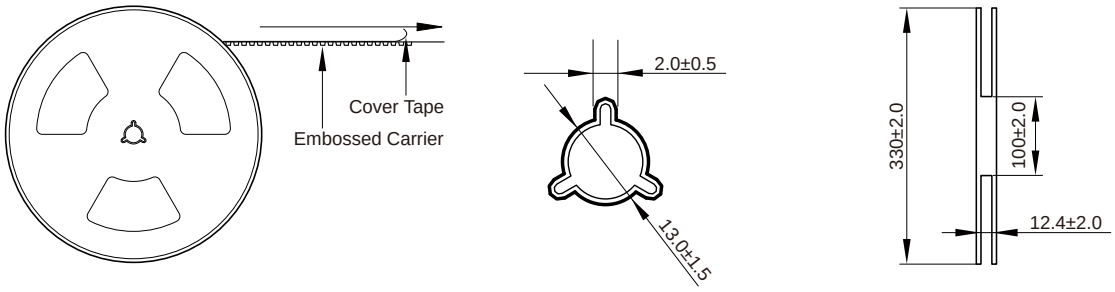


The peel force of top cover tape shall be between 0.1 to 1.3 N

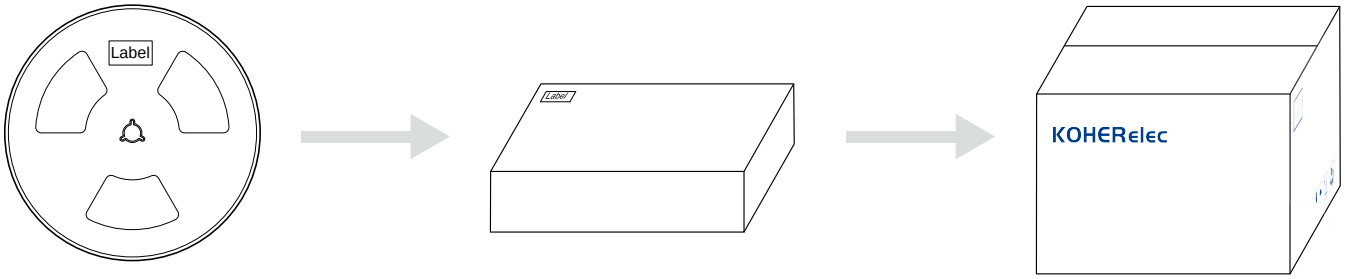
Product Marking:

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.