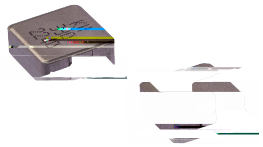
# MDA Series

SMD Low Profile High Current Molded Inductor

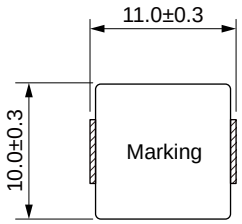
Size 1040

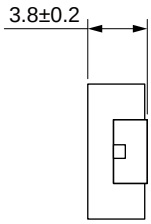


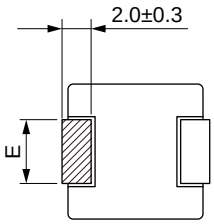
**APPLICATION**

- 
- HVAC
- 
- Audio subsystem
- Digital instrument cluster
- 

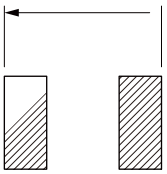
## Dimensions: [mm]



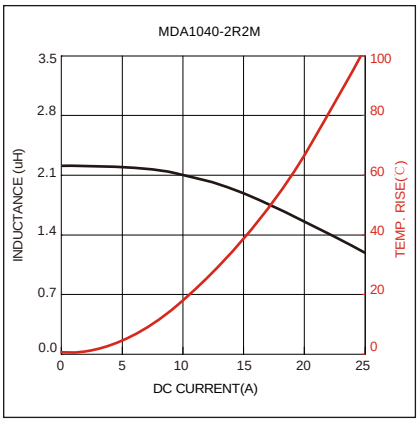



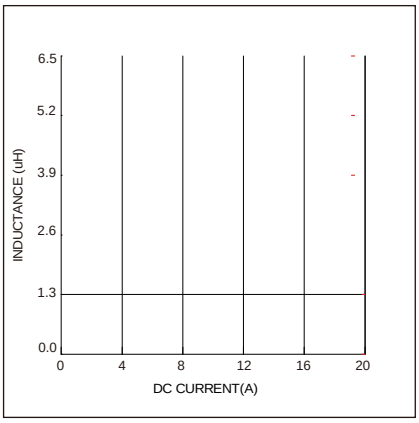

## Land Pattern: [mm]

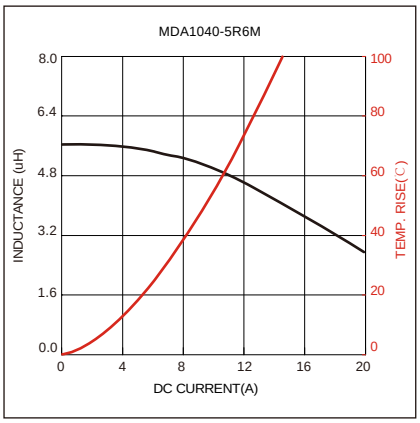


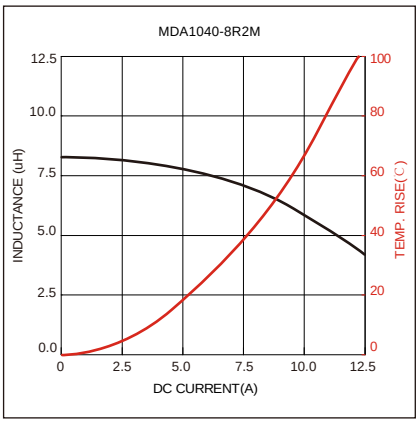
## Electrical Properties:

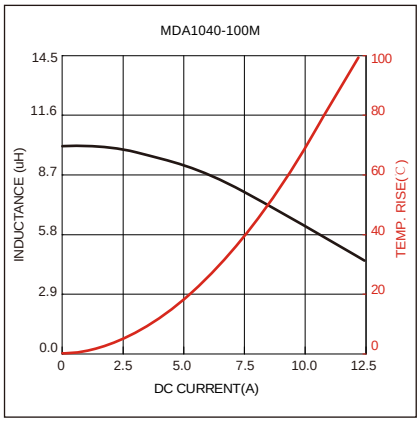
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MDA1040-R15N | 0.15 | ±30% | 44.0 | 38.0 | 82.0 | 75.0 | 0.50 | 0.60 | 3.0±0.3 |
| MDA1040-R22M | 0.22 | ±20% | 36.0 | 33.0 | 70.0 | 60.0 | 0.72 | 0.83 | 3.0±0.3 |
| MDA1040-R36M | 0.36 | ±20% | 33.0 | 29.0 | 51.0 | 45.0 | 1.05 | 1.18 | 3.0±0.3 |
| MDA1040-R47M | 0.47 | ±20% | 32.0 | 28.0 | 46.0 | 40.0 | 1.30 | 1.50 | 3.0±0.3 |
| MDA1040-R56M | 0.56 | ±20% | 25.0 | 23.0 | 34.0 | 29.0 | 1.60 | 1.80 | 2.5±0.3 |
| MDA1040-R68M | 0.68 | ±20% | 23.0 | 20.0 | 31.0 | 28.0 | 1.90 | 2.20 | 2.5±0.3 |
| MDA1040-1R0M | 1.00 | ±20% | 20.0 | 18.0 | 29.0 | 26.0 | 2.90 | 3.25 | 2.5±0.3 |
| MDA1040-1R5M | 1.50 | ±20% | 17.5 | 16.0 | 26.0 | 22.0 | 3.70 | 4.20 | 2.5±0.3 |
| MDA1040-1R8M | 1.80 | ±20% | 16.5 | 15.0 | 23.0 | 20.0 | 5.10 | 5.70 | 3.0±0.3 |
| MDA1040-2R2M | 2.20 | ±20% | 15.0 | 13.0 | 20.0 | 16.0 | 5.80 | 6.70 | 3.0±0.3 |
| MDA1040-3R3M | 3.30 | ±20% | 11.0 | 10.0 | 17.5 | 14.0 | 10.5 | 11.8 | 3.0±0.3 |
| MDA1040-4R7M | 4.70 | ±20% | 8.80 | 8.0 | 15.2 | 13.0 | 15.8 | 19.0 | 3.0±0.3 |
| MDA1040-5R6M | 5.60 | ±20% | 8.00 | 7.2 | 14.1 | 11.5 | 19.0 | 22.8 | 3.0±0.3 |
| MDA1040-6R8M | 6.80 | ±20% | 7.80 | 6.8 | 12.2 | 11.0 | 22.0 | 24.5 | 3.0±0.3 |


MDA1040-2R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
3.5
2.8
2.1
1.4
0.7
0.0
100
80
60
40
20
0
0
5
10
15
20
25

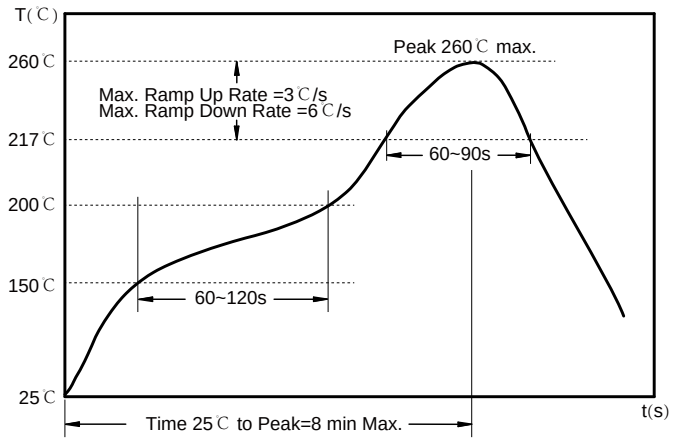

INDUCTANCE (uH)
DC CURRENT(A)
6.5
5.2
3.9
2.6
1.3
0.0
0
4
8
12
16
20


MDA1040-5R6M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
8.0
6.4
4.8
3.2
1.6
0.0
100
80
60
40
20
0
0
4
8
12
16
20


MDA1040-8R2M
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
2.5
5.0
7.5
10.0
12.5


MDA1040-100M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
14.5
11.6
8.7
5.8
2.9
0.0
100
80
60
40
20
0
0
2.5
5.0
7.5
10.0
12.5

## Soldering Reflow:




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

Allowed time above 217℃: 60~90 sec.

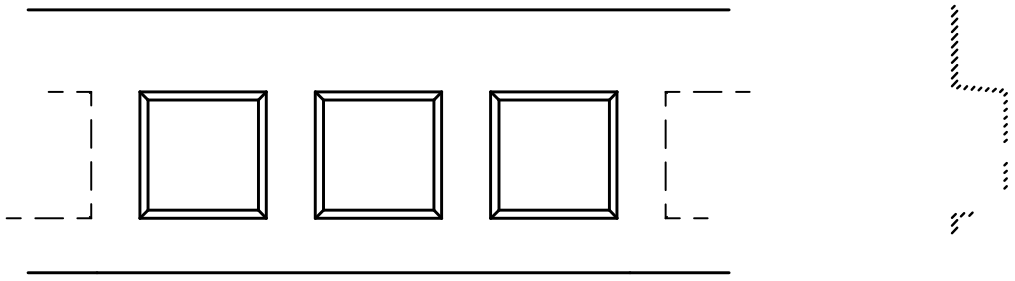
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

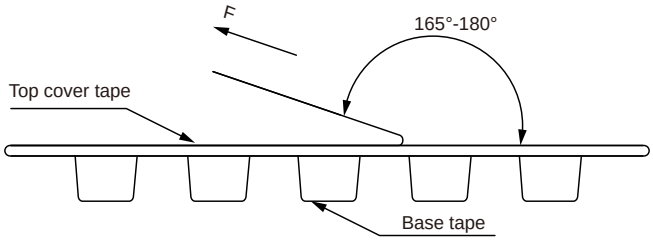
## Packaging Information:

### Tape Dimension:



| Series | A0 (mm) | B0 (mm) | D (mm) | P0 (mm) | P1 (mm) | W (mm) | K0 (mm) | E (mm) | T (mm)A0 |
|---|---|---|---|---|---|---|---|---|---|
| MDA1040 | 10.4±0.1 | 11.6±0.1 | 1.5±0.1 | 4.0±0.1 | 16.0±0.1 | 24.0±0.3 | 4.3±0.1 | 1.75±0.1 | 0.35±0.05 |

### Peel force of top cover tape:

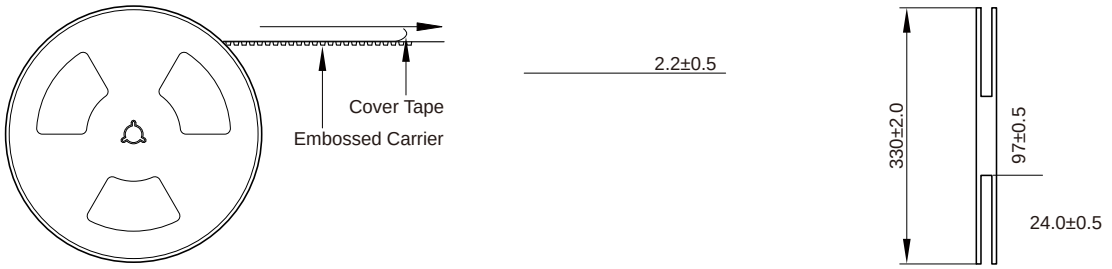



The peel force of top cover tape shall be between 0.1 to 1.3 N

### 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：

Operation Instructions: