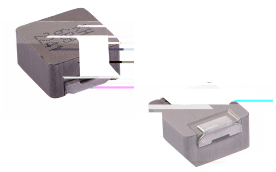
# MDA HT Series

SMD Low Profile High Current Molded Inductor

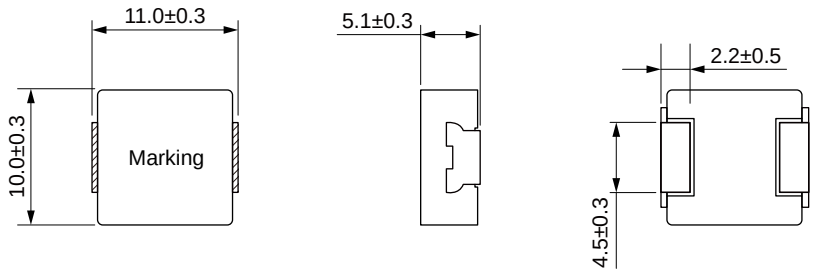
Size 1054



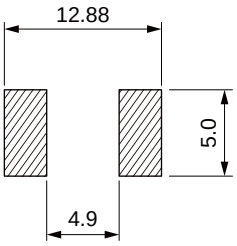
**APPLICATION**

- Headlamps, tail lamps and interior ligh ng
- HVAC
- Doors, window li and seat control
- Audio subsystem
- Digital instrument cluster
- In-Vehicle Infotainment and naviga on

## Dimensions: [mm]



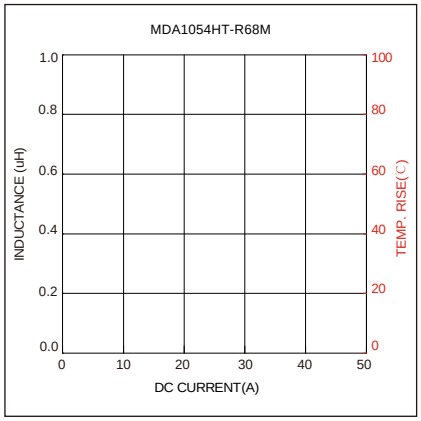

## Land Pattern: [mm]

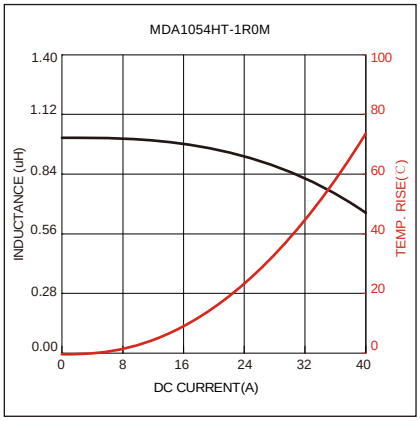


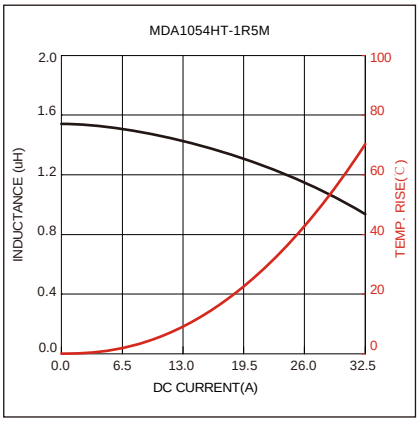

## Electrical Properties:

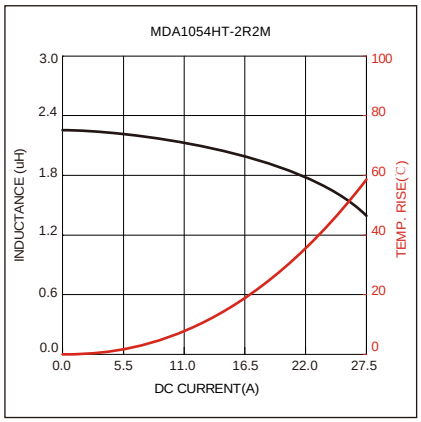
| Part No | | Tolerance | Temperature Rise Current Typ. | Temperature Rise Current Max. | | Current Max. | DC Resistance Typ. | DC Resistance Max. |
|---|---|---|---|---|---|---|---|---|
| | | ±20% | 32.0 | 28.8 | 46.0 | 39.4 | 1.80 | 2.22 |
| | | ±20% | 30.0 | 27.0 | 37.0 | 31.7 | 2.30 | 2.76 |
| | | ±20% | 25.0 | 22.3 | 27.0 | 23.0 | 3.60 | 4.20 |
| | | ±20% | 23.0 | 20.7 | 25.0 | 21.4 | 4.10 | 4.90 |
| | | ±20% | 18.7 | 16.8 | 19.0 | 16.3 | 6.20 | 7.40 |
| | | ±20% | 14.5 | 13.0 | 15.7 | 13.5 | 9.00 | 10.0 |
| | | ±20% | 12.3 | 10.8 | 13.3 | 11.4 | 12.4 | 14.0 |
| | | ±20% | 9.00 | 7.80 | 12.8 | 10.9 | 22.0 | 24.2 |
| | | ±20% | 7.60 | 6.80 | 9.20 | 7.90 | 27.3 | 31.3 |

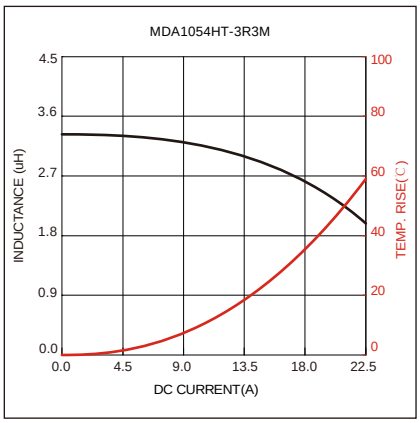
## Typical Electrical Characteristics:

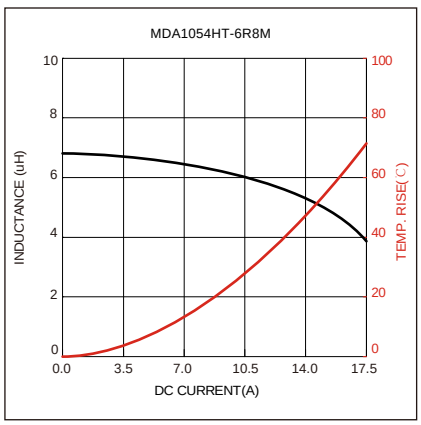


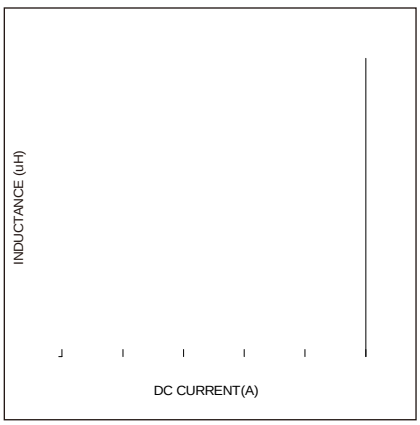



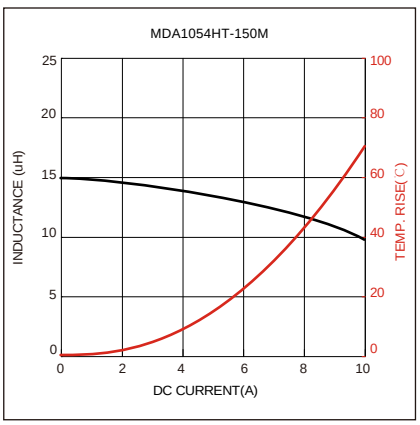



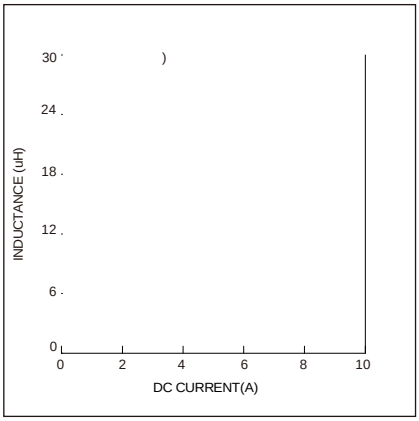



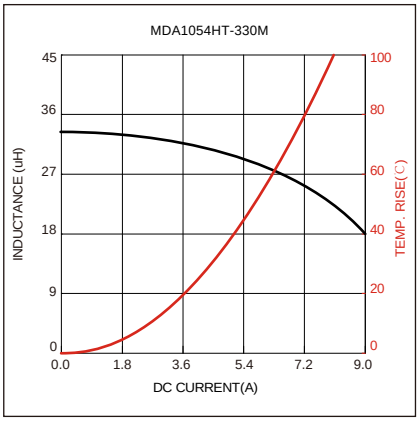



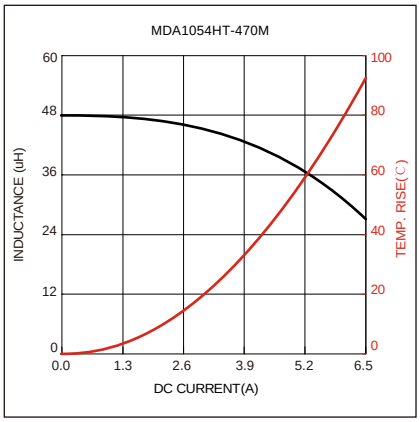



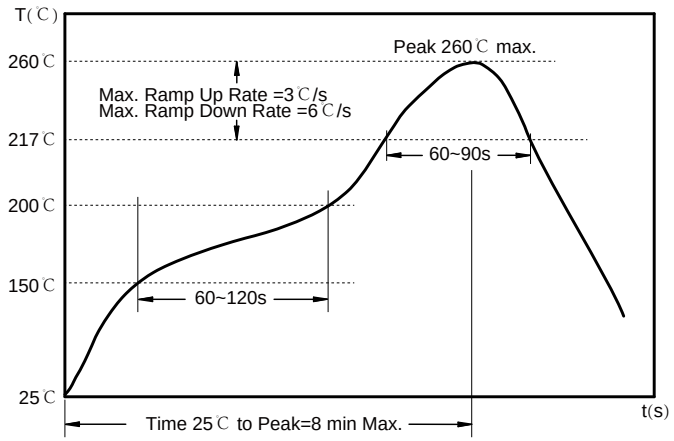




INDUCTANCE (uH)
30
24
18
12
6
0
0
2
4
6
8
10
DC CURRENT(A)


MDA1054HT-330M
INDUCTANCE (uH)
45
36
27
18
9
0
0.0
1.8
3.6
5.4
7.2
9.0
DC CURRENT(A)
TEMP. RISE(℃)
100
80
60
40
20
0


MDA1054HT-470M
INDUCTANCE (uH)
60
48
36
24
12
0
0.0
1.3
2.6
3.9
5.2
6.5
DC CURRENT(A)
TEMP. RISE(℃)
100
80
60
40
20
0

## Soldering Reflow:




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

Allowed time above 217℃: 60~90 sec.

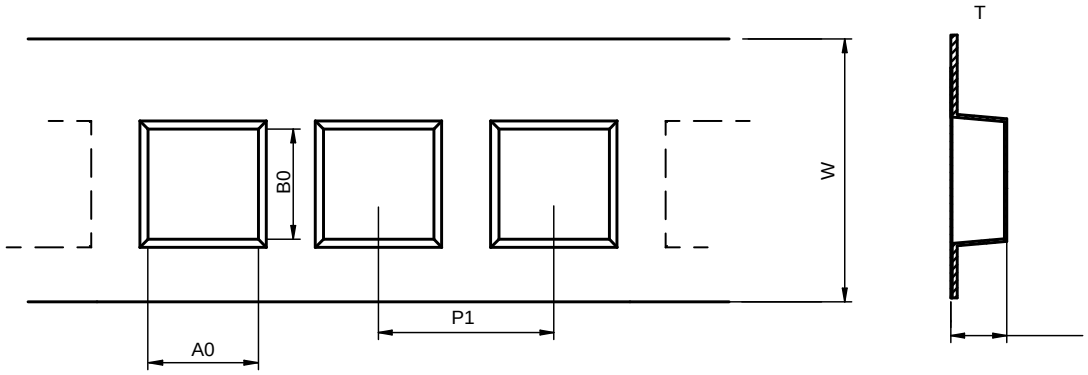
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

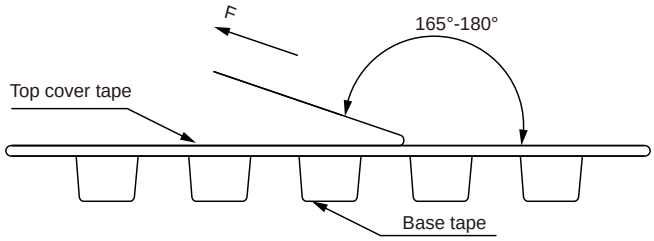
## Packaging Information:

Tape Dimension:




| Series | A0 (mm) | B0 (mm) | D (mm) | P0 (mm) | P1 (mm) | W (mm) | K0 (mm) | E (mm) | T (mm) |
|---|---|---|---|---|---|---|---|---|---|
| MDA1054HT | 10.4±0.1 | 11.6±0.1 | 1.5±0.1 | 4.0±0.1 | 16±0.1 | 24±0.3 | 5.7±0.1 | 1.75±0.1 | 0.40±0.05 |

Peel force of top cover tape:

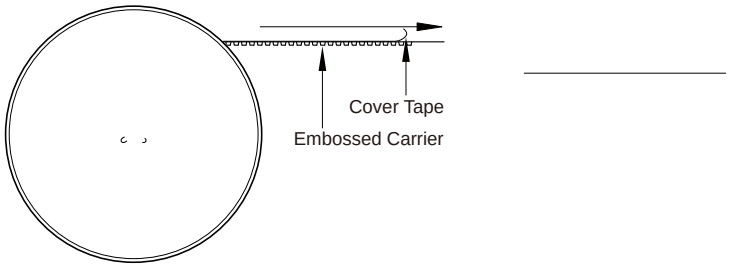



The peel force of top cover tape shall e etween 0.1 to 1.3 N

Product Marking:

| Marking | KH+Printing (Inductance+period) |
|---|---|

Reel Dimension：[mm]




Packaging Quantity: