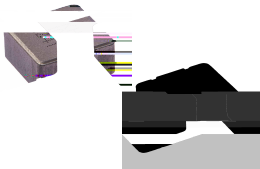


# MDA Series

## SMD Low Profile High Current Molded Inductor

### Size 1350



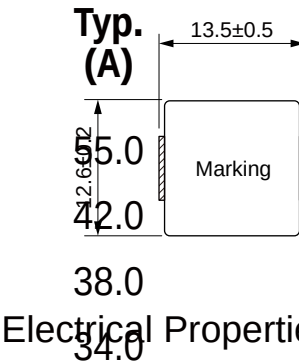
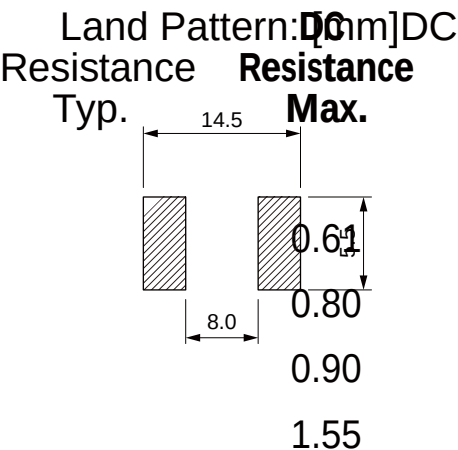
#### FEATURES

- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
- 100% Lead(Pb)-Free and RoHS compliant.

#### APPLICATION

- HVAC
- Audio subsystem
- Digital instrument cluster

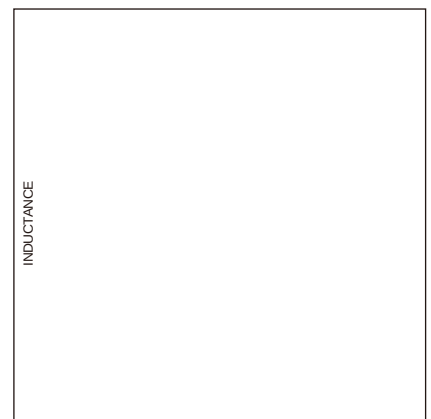
Dimensions [mm]

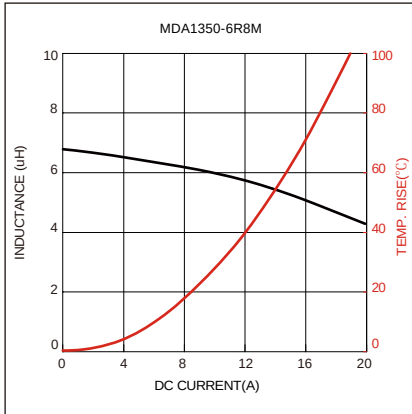
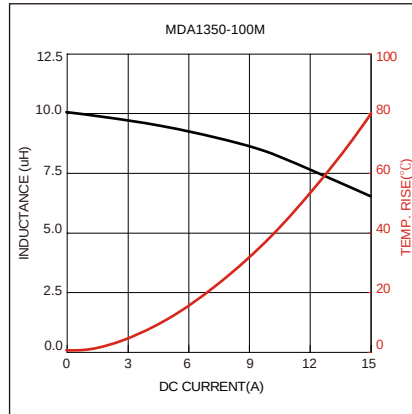
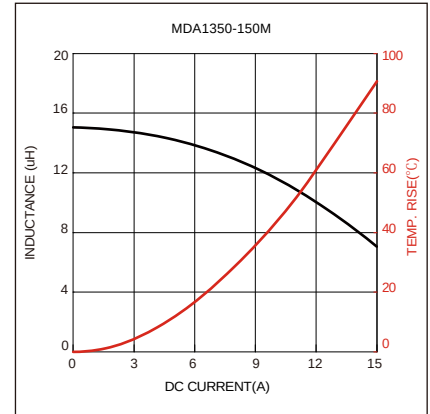
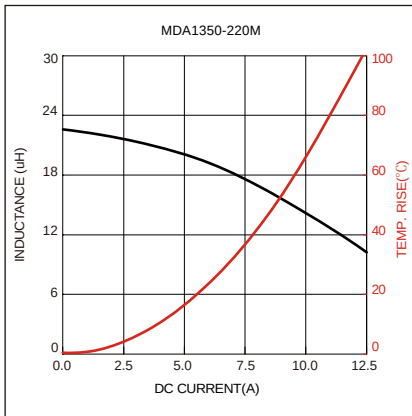
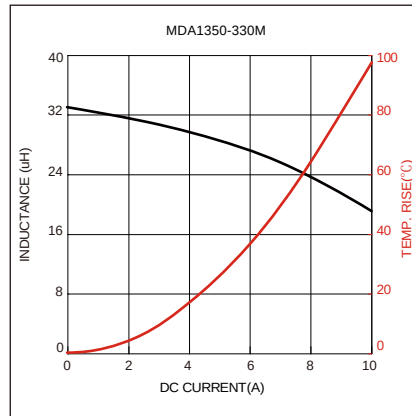
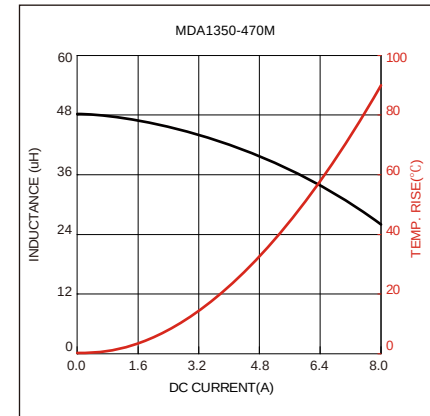
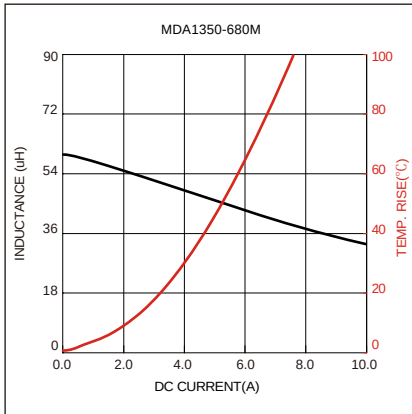


Electrical Properties:

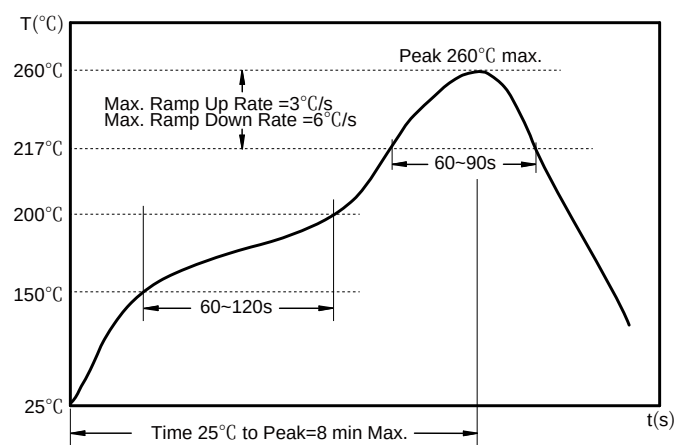
| Part No      | Inductance @ 100KHz/1V |      |      | Temperature Rise Current Max. (A) |      | Current Max. (A) |      |      |         |
|--------------|------------------------|------|------|-----------------------------------|------|------------------|------|------|---------|
| MDA1350-R22M | 0.22                   |      |      | 50.0                              |      | 60.0             |      |      |         |
| MDA1350-R33M | 0.33                   |      |      | 37.0                              |      | 59.0             |      |      |         |
| MDA1350-R47M | 0.47                   |      |      | 34.0                              |      | 58.0             |      |      |         |
| MDA1350-R68M | 0.68                   |      |      | 31.0                              |      | 42.0             |      |      |         |
| MDA1350-1R0M | 1.00                   |      |      | 27.0                              |      | 34.0             |      |      |         |
| MDA1350-1R5M | 1.50                   | ±20% | 25.0 | 22.0                              | 31.0 | 28.0             | 3.20 | 3.80 | 4.7±0.3 |
| MDA1350-2R2M | 2.20                   | ±20% | 17.0 | 15.5                              | 26.0 | 23.0             | 4.10 | 4.80 | 4.7±0.3 |
| MDA1350-3R3M | 3.30                   | ±20% | 15.5 | 14.0                              | 23.0 | 20.5             | 6.00 | 7.00 | 4.7±0.3 |
| MDA1350-4R7M | 4.70                   | ±20% | 14.0 | 12.5                              | 18.5 | 16.0             | 8.80 | 10.2 | 4.7±0.3 |
| MDA1350-6R8M | 6.80                   | ±20% | 12.0 | 11.0                              | 16.5 | 15.0             | 13.0 | 16.0 | 4.7±0.3 |
| MDA1350-100M | 10.0                   | ±20% | 10.0 | 9.0                               | 13.0 | 10.5             | 19.2 | 22.0 | 4.7±0.3 |
| MDA1350-150M | 15.0                   | ±20% | 9.40 | 8.2                               | 11.0 | 9.2              | 30.0 | 36.0 | 4.7±0.3 |

Typical Electrical Characteristics:





Soldering Reflow:



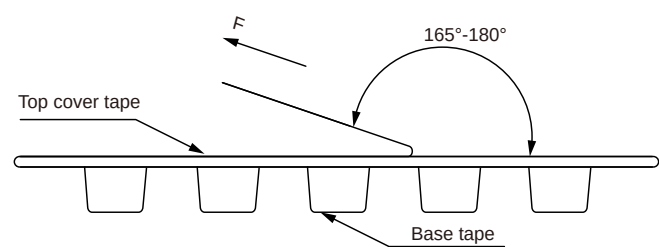
Preheat condition:  $150 \sim 200^{\circ}\text{C}$  / 60~120 sec.  
Allowed time above  $217^{\circ}\text{C}$ : 60~90 sec.  
Max temperature:  $260^{\circ}\text{C}$ .  
Max time at max temperature: 10 sec.  
Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension :

| Series  | A0<br>(mm)   | B0<br>(mm)   | D<br>(mm)   | P0<br>(mm)  | P1<br>(mm)   | W<br>(mm)    | K0<br>(mm)  | E<br>(mm)    | T<br>(mm)     |
|---------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|--------------|---------------|
| MDA1350 | $13.1\pm0.1$ | $14.0\pm0.1$ | $1.5\pm0.1$ | $4.0\pm0.1$ | $16.0\pm0.1$ | $24.0\pm0.3$ | $5.4\pm0.1$ | $1.75\pm0.1$ | $0.50\pm0.05$ |

Peel force of top cover tape:

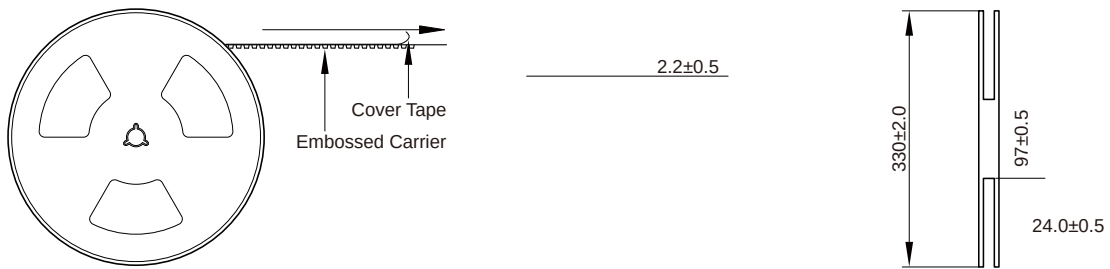


The peel force of top cover tape shall be between 0.1 to 1.3 N

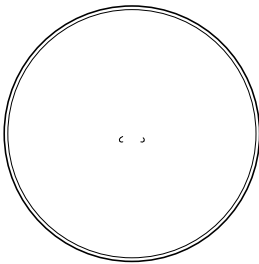
Product Marking:

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

## Reel Dimension : [mm]



## Packaging Quantity:



500 Pcs/Reel

2 Reel /Inner box( 1000 Pcs)

2 Inner box/Carton box(2K Pcs)

## Cautions and Warnings:

Storage Conditions :

## Operation Instructions: