



## 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.



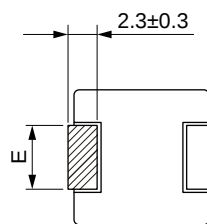
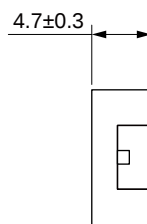
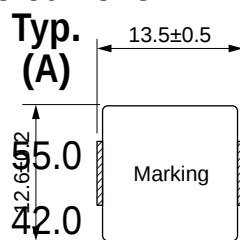
#### APPLICATION

- HVAC
- Audio subsystem
- Digital instrument cluster

Dimensions: [mm]

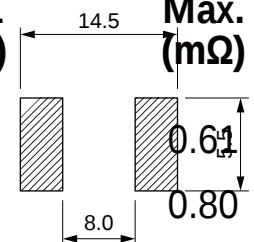
Temperature

Rise Current



Land Pattern: [mm] DC Resistance

Typ. (mΩ) Max. (mΩ)



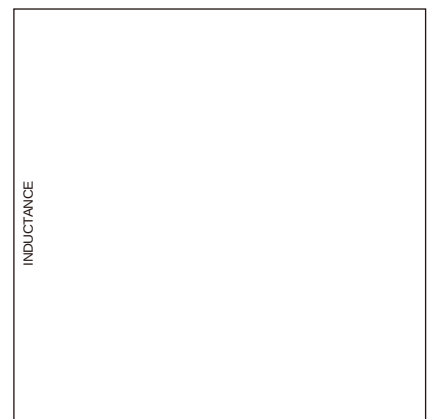
38.0

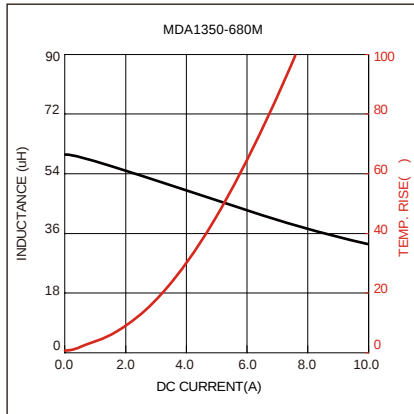
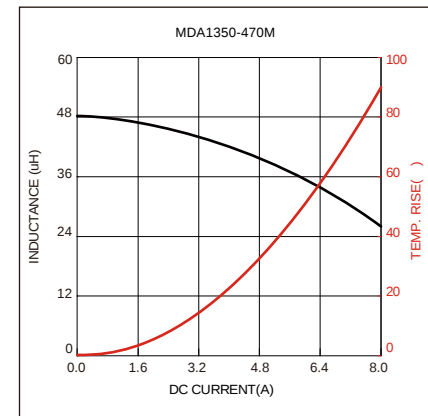
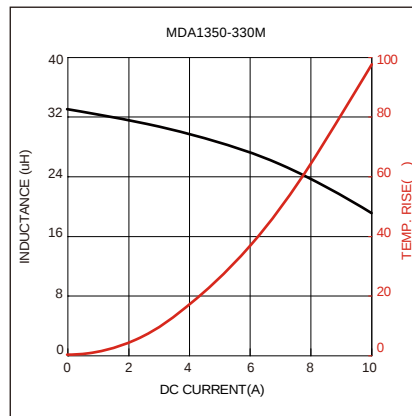
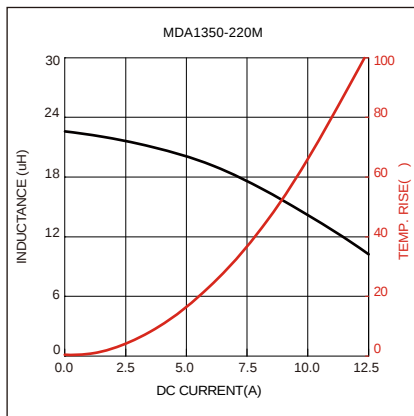
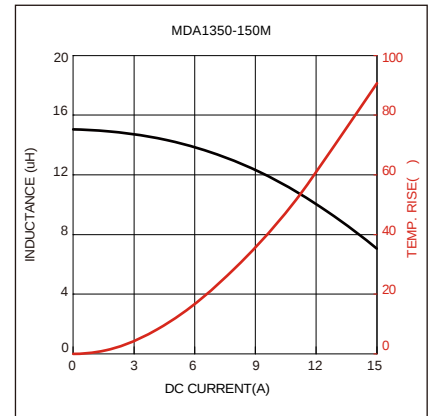
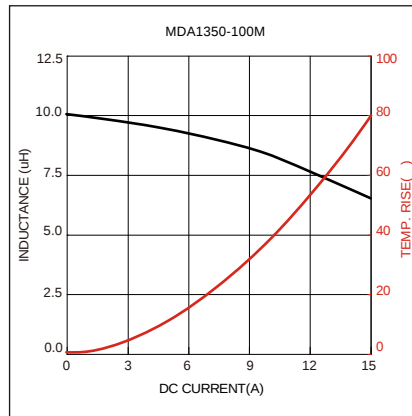
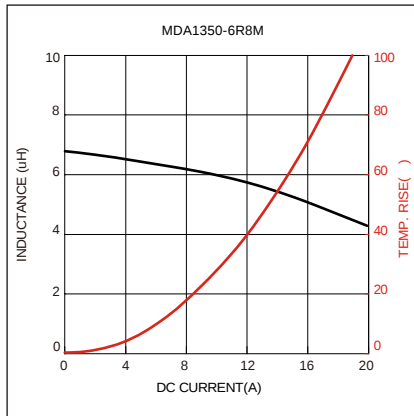
34.0

Electrical Properties:

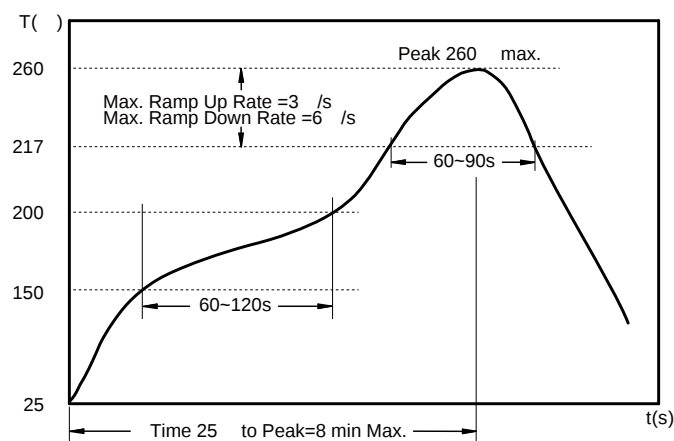
| Part No      | Inductance<br>@ 100KHz/1V<br>(μH) |      |      | Temperature<br>Rise Current<br>Max.<br>(A) |      | Satura<br>on<br>Current<br>Max.<br>(A) |      |      |         |
|--------------|-----------------------------------|------|------|--------------------------------------------|------|----------------------------------------|------|------|---------|
| 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:



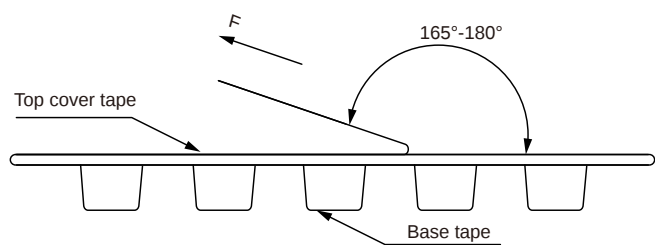
Preheat condition: 150 ~200 / 60~120 sec.  
Allowed time above 217 : 60~90 sec.  
Max temperature: 260 .  
Max time at max temperature: 10 sec.  
Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension :

| Series  | A0<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±0.1   | 14.0±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  | 0.50±0.05 |

Peel force of top cover tape:



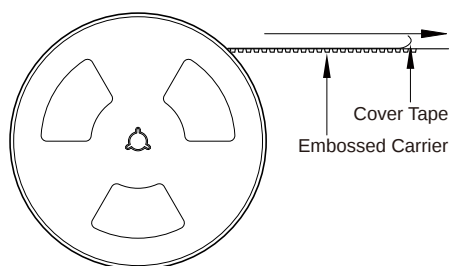
The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

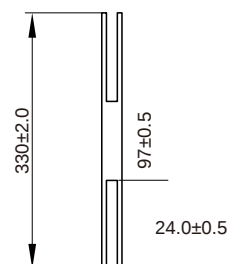
|         |                                 |
|---------|---------------------------------|
| Marking | KH+Printing (Inductance+period) |
|---------|---------------------------------|



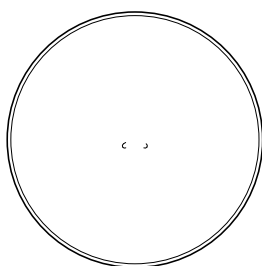
Reel Dimension : [mm]



$2.2 \pm 0.5$



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: