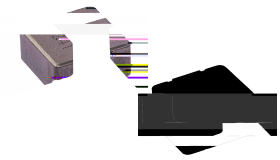
# MDA Series

SMD Low Profile High Current Molded Inductor

Size 1350



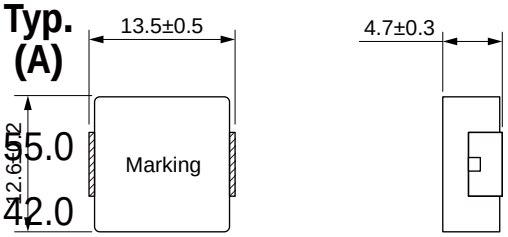
## FEATURES

- 
- 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.
- 
- 
- 

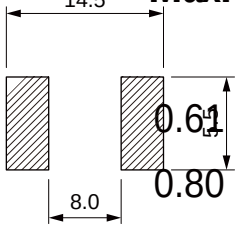
## APPLICATION

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

Dimensions: [mm]



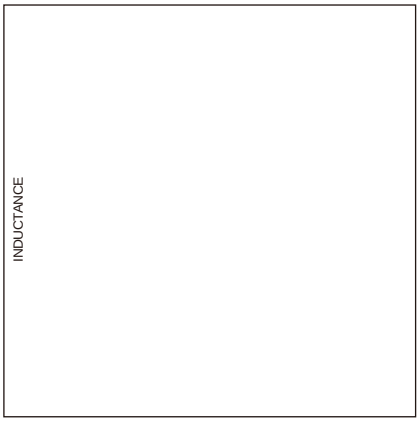

Land Pattern: [mm]

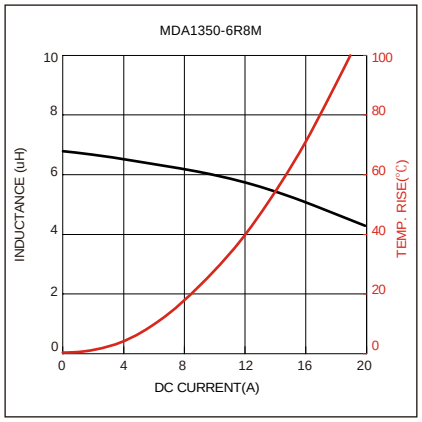


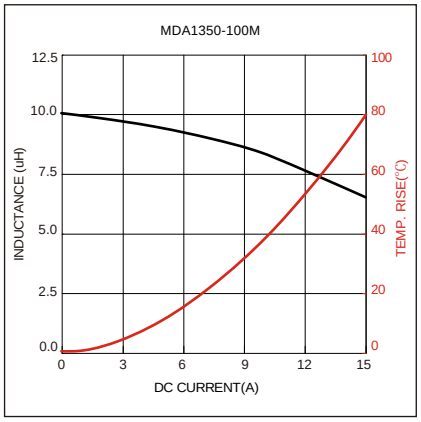

Electrical Properties:

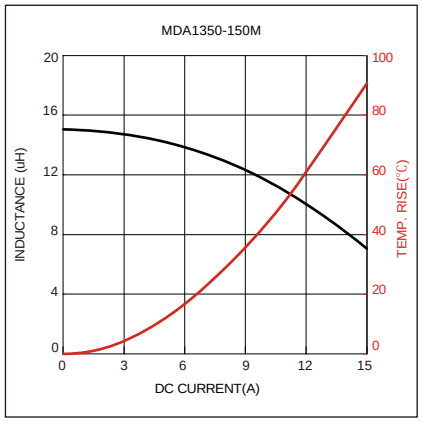
| Part No | Inductance @ 100KHz/1V | | | Temperature Rise Current Max. (A) | | Current Max. (A) | | DC Resistance Typ. | DC Resistance Max. | E |
|---|---|---|---|---|---|---|---|---|---|---|
| MDA1350-R22M | 0.22 | | | 50.0 | | 60.0 | | | | |
| MDA1350-R33M | 0.33 | | | 37.0 | | 59.0 | | | | |
| MDA1350-R47M | 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 | |

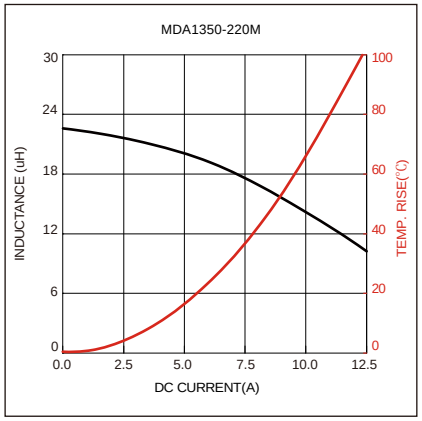
Typical Electrical Characteristics:

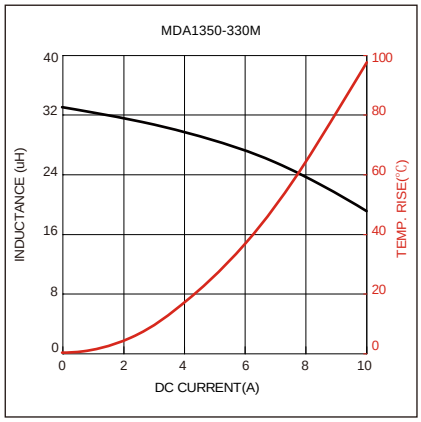


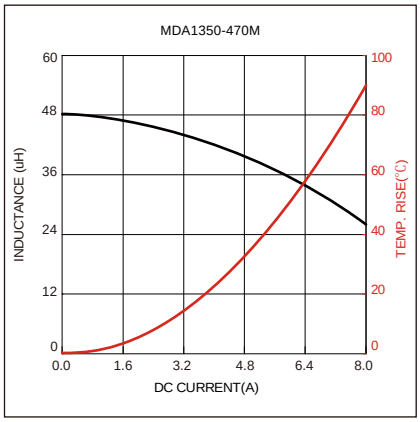

MDA1350-6R8M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
0 2 4 6 8 10
0 20 40 60 80 100
0 4 8 12 16 20

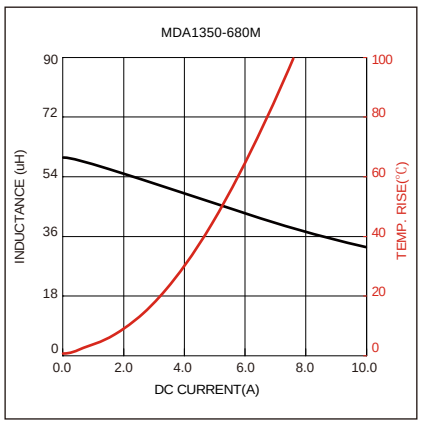

MDA1350-100M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
0.0 2.5 5.0 7.5 10.0 12.5
0 20 40 60 80 100
0 3 6 9 12 15


MDA1350-150M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
0 4 8 12 16 20
0 20 40 60 80 100
0 3 6 9 12 15

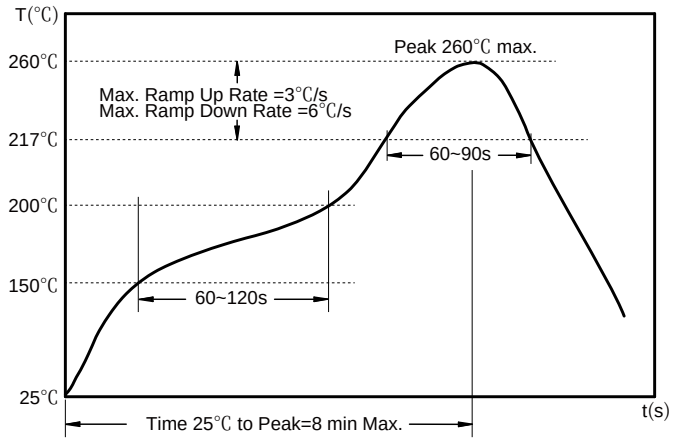

MDA1350-220M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
0 6 12 18 24 30
0 20 40 60 80 100
0.0 2.5 5.0 7.5 10.0 12.5


MDA1350-330M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
0 8 16 24 32 40
0 20 40 60 80 100
0 2 4 6 8 10


MDA1350-470M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
0 12 24 36 48 60
0 20 40 60 80 100
0.0 1.6 3.2 4.8 6.4 8.0


MDA1350-680M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
0 18 36 54 72 90
0 20 40 60 80 100
0.0 2.0 4.0 6.0 8.0 10.0

## 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.

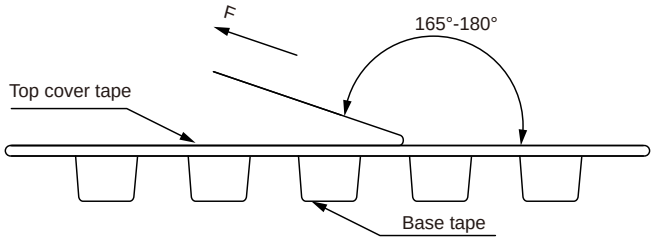
Allowed Reflow time: 2x max.

## Packaging Information:

Tape Dimension：

| Series | A0 (mm) | B0 (mm) | D (mm) | P0 (mm) | P1 (mm) | W (mm) | K0 (mm) | E (mm) | T (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 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:

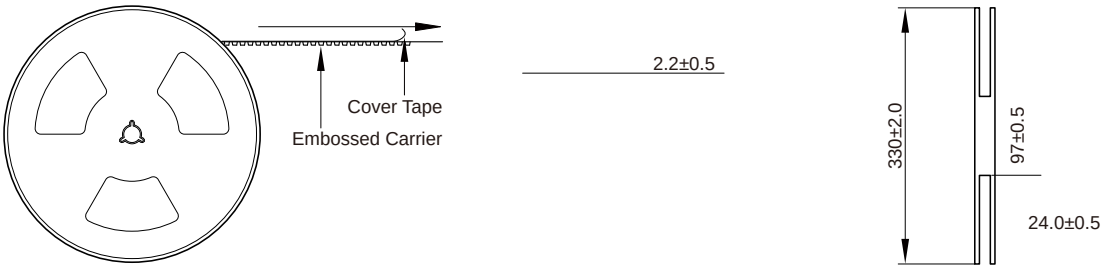



The peel force of top cover tape shall be between 0.1 to 1.3 N

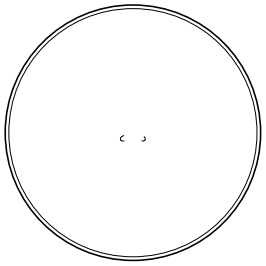
Product Marking:

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

Reel Dimension：[mm]




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: