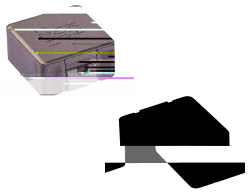
# MDA Series

SMD Low Profile High Current Molded Inductor

Size 1360



### FEATURES

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

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- HVAC
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- Audio subsystem
- Digital instrument cluster
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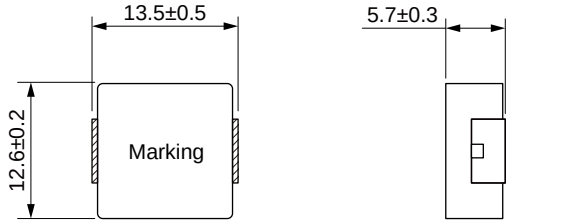
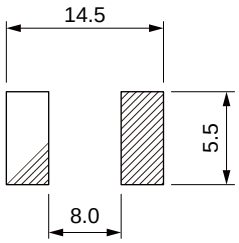
## Dimensions: [mm]




## Land Pattern: [mm]



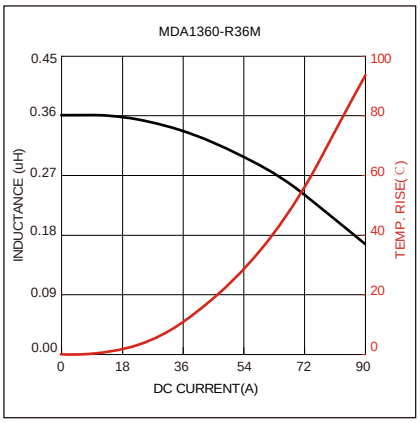

## Electrical Properties:

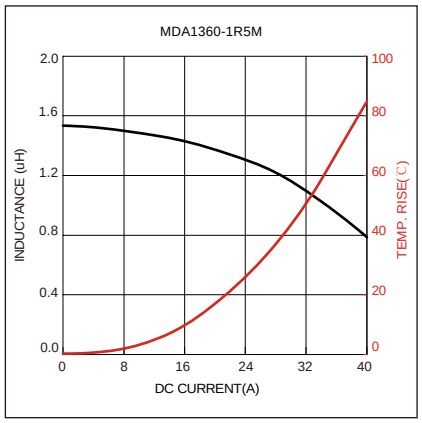
| Part No | Inductance @ 100KHz/1V (μH) | Tolerance | Temperature Rise Current Typ. (A) | Temperature Rise Current Max. (A) | Satura on Current Typ. (A) | Satura on Current Max. (A) | DC Resistance Typ. (mΩ) | DC Resistance Max. (mΩ) | E |
|---|---|---|---|---|---|---|---|---|---|
| MDA1360-R36M | 0.36 | ±20% | 60.0 | 50.0 | 70.0 | 60.0 | 0.65 | 0.80 | 4.7±0.3 |
| MDA1360-1R5M | 1.50 | ±20% | 28.0 | 24.0 | 32.0 | 27.0 | 2.40 | 3.00 | 4.0±0.3 |
| MDA1360-2R2M | 2.20 | ±20% | 25.0 | 21.0 | 28.0 | 24.0 | 3.70 | 4.30 | 4.7±0.3 |
| MDA1360-3R3M | 3.30 | ±20% | 21.0 | 18.0 | 28.0 | 24.0 | 5.30 | 6.50 | 4.7±0.3 |
| MDA1360-4R7M | 4.70 | ±20% | 19.0 | 16.0 | 23.0 | 19.5 | 7.00 | 8.40 | 4.7±0.3 |
| MDA1360-8R2M | 8.20 | ±20% | 13.5 | 12.0 | 17.0 | 15.5 | 13.5 | 16.0 | 4.7±0.3 |
| MDA1360-100M | 10.0 | ±20% | 12.0 | 10.5 | 16.0 | 14.5 | 15.5 | 18.6 | 4.7±0.3 |
| MDA1360-150M | 15.0 | ±20% | 10.0 | 8.5 | 10.0 | 9.0 | 24.0 | 29.0 | 4.7±0.3 |
| MDA1360-220M | 22.0 | ±20% | 8.0 | 7.0 | 9.0 | 8.0 | 31.2 | 37.5 | 4.7±0.3 |
| MDA1360-330M | 33.0 | ±20% | 6.5 | 5.5 | 7.8 | 6.7 | 56.0 | 68.0 | 4.7±0.3 |
| MDA1360-470M | 47.0 | ±20% | 5.2 | 4.5 | 6.7 | 5.5 | 76.0 | 88.0 | 4.7±0.3 |

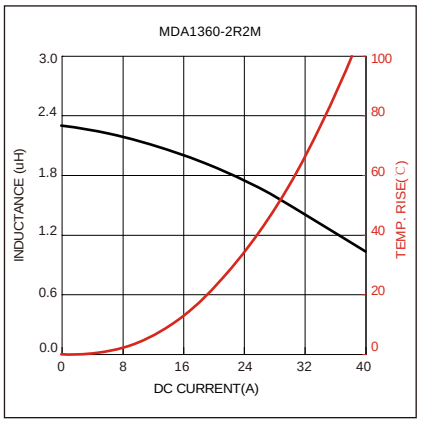
Saturation Current will cause L to drop approximately 30%

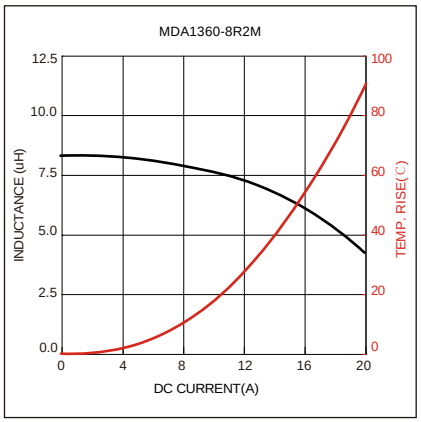
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

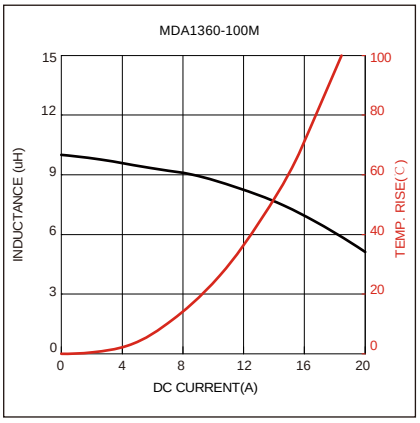
# Typical Electrical Characteristics:



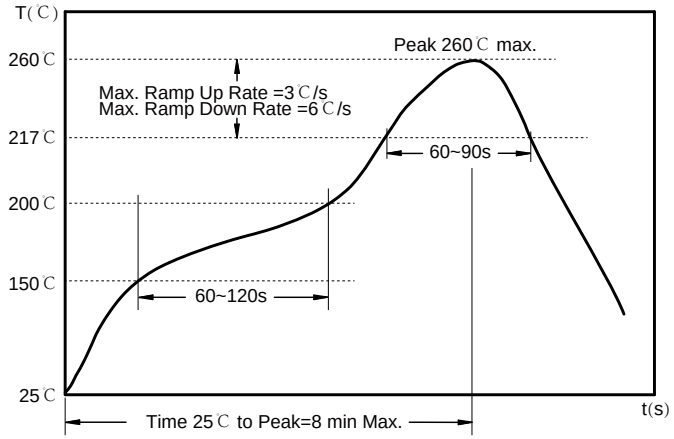



## Soldering Reflow:




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

Allowed time above 217℃: 60~90 sec.

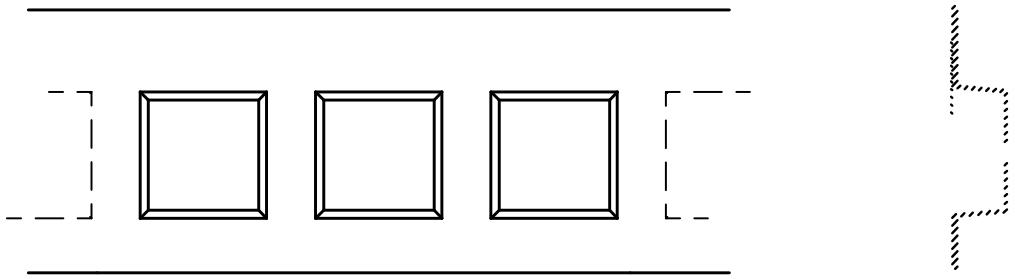
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

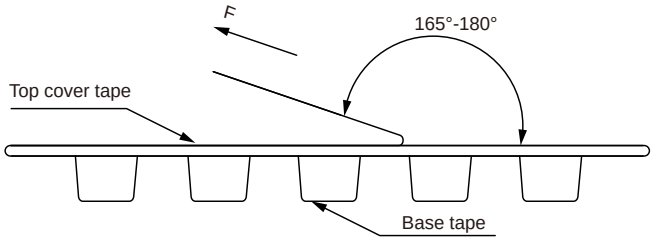
## Packaging Information:

Tape Dimension:



| Series | A0 (mm) | B0 (mm) | D (mm) | P0 (mm) | P1 (mm) | W (mm) | K0 (mm) | E (mm) | T (mm) |
|---|---|---|---|---|---|---|---|---|---|
| MDA1360 | 13.1±0.1 | 14.0±0.1 | 1.5±0.1 | 4.0±0.1 | 16.0±0.1 | 24.0±0.3 | 6.3±0.1 | 1.75±0.1 | 0.50±0.05 |

Peel force of top cover tape:

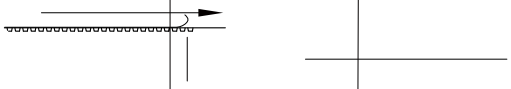



The peel force of top cover tape shall e etween 0.1 to 1.3 N

Product Marking:

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

Reel Dimension：[mm]



Packaging Quantity: