

MDSA Series

SMD Low Profile High Current Molded Inductor

Size 5030



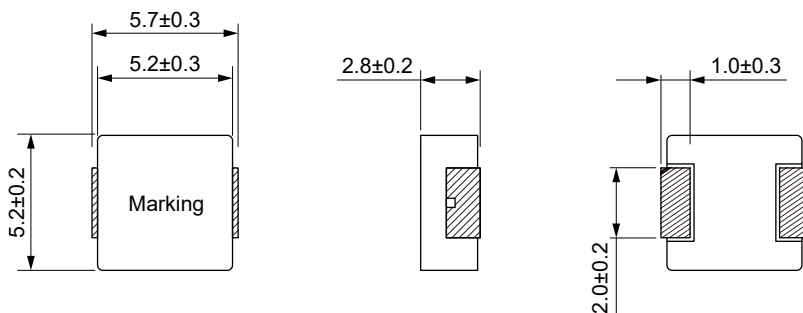
FEATURES

- Shielded construction
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- Ultra low buzz noise, due to composite construction.
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- AEC-Q200 qualified
- Operating temperature: -55 to +155 °C (including self-temperature rise)
- Quantity: 2000PCS

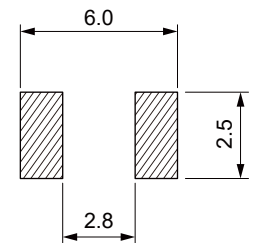
APPLICATION

- Noise filter for various drive circuitry requiring high temperature operation and peak current handling capability.
- Boost-Converter
- Buck-Converter DC/DC

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

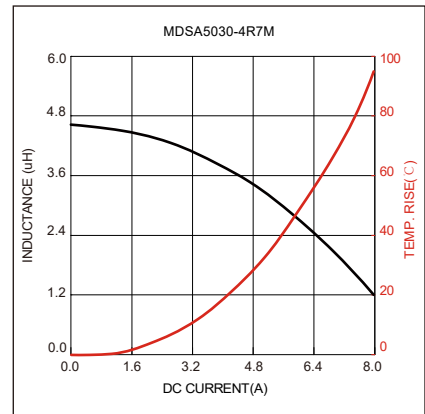
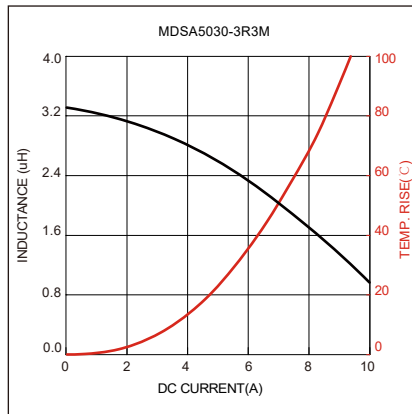
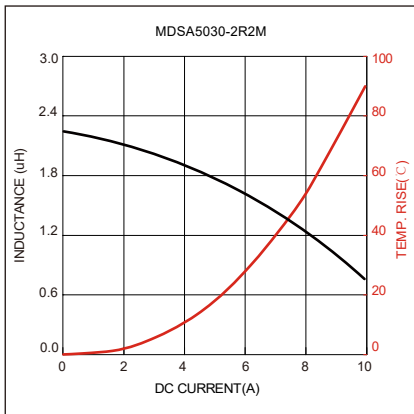
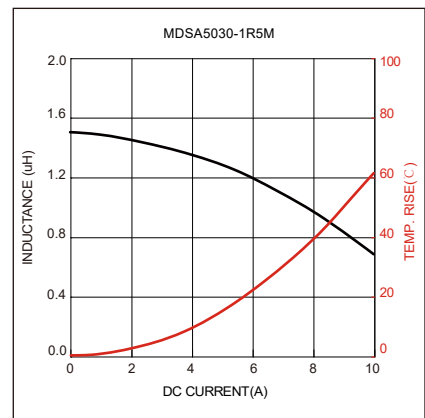
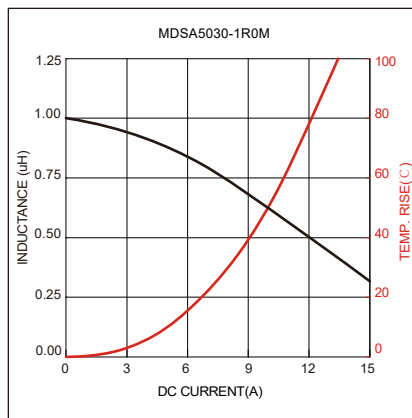
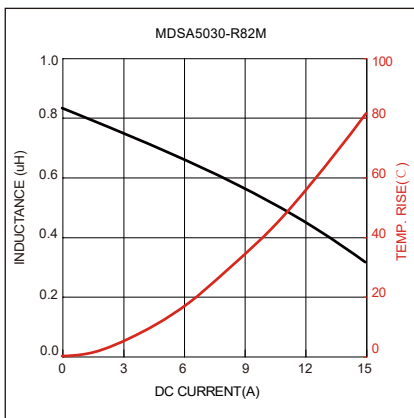
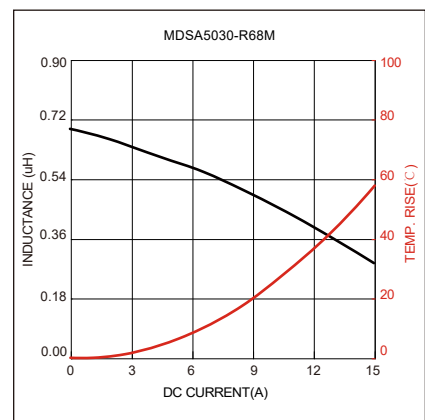
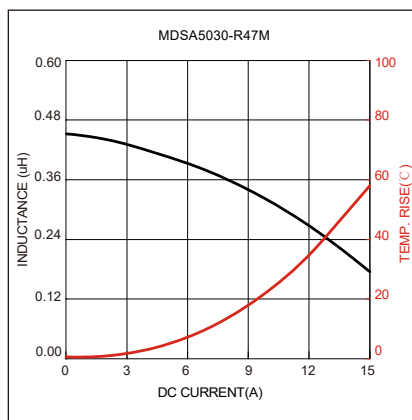
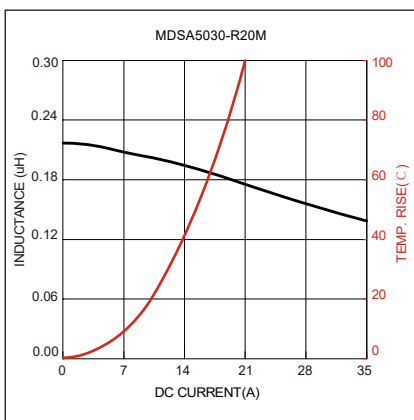
| Part No | Inductance @ 100KHz/1V | Tolerance | Temperature Rise Current Typ. (A) | Current Typ. (A) | DC Resistance Typ. | DC Resistance Max. |
|---------|------------------------|-----------|-----------------------------------|------------------|--------------------|--------------------|
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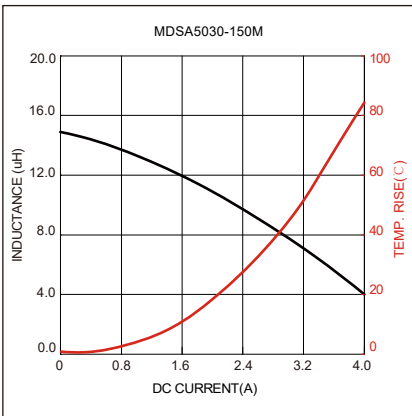
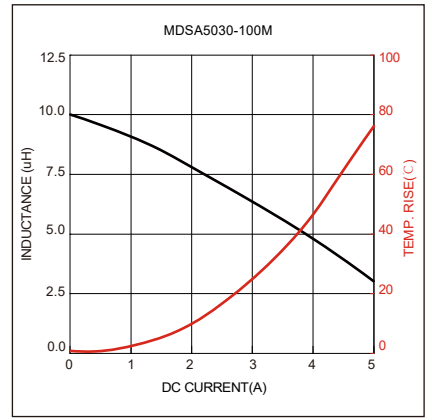
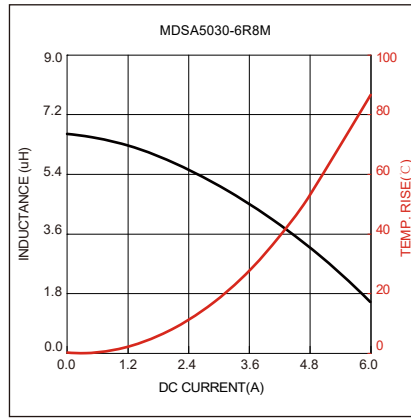
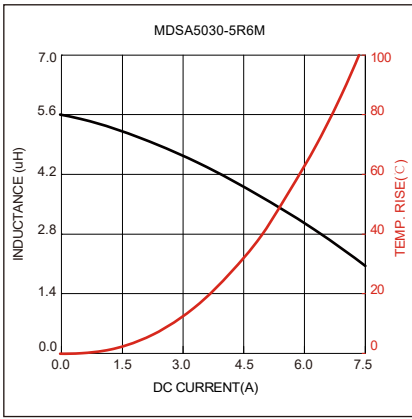
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|---------|------------------------|-----------|-----------------------------------|------------------|--------------------|--------------------|
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Saturation Current will cause L to drop approximately 30%

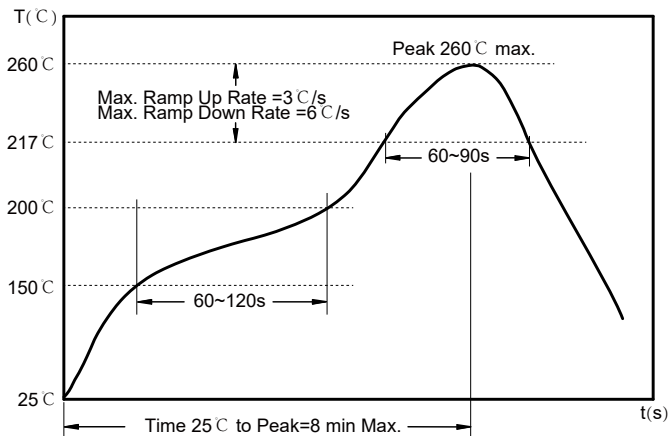
Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

Typical Electrical Characteristics:





Soldering Reflow:



Preheat condition: 150 ~200°C / 60~120 sec.

Allowed time above 217°C : 60~90 sec.

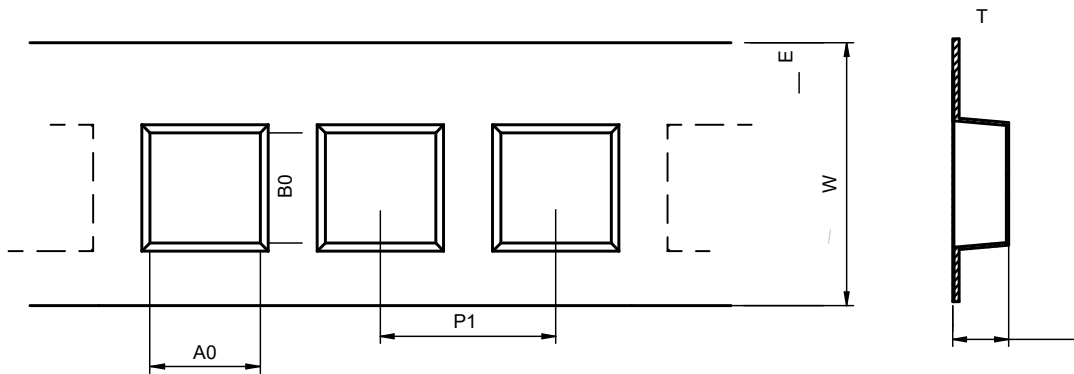
Max temperature: 260°C .

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

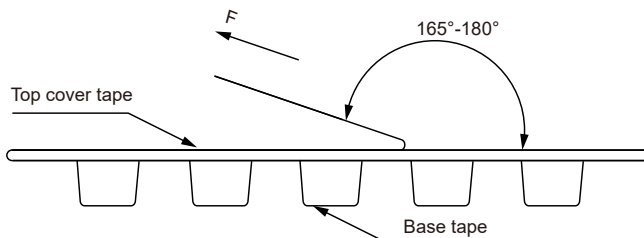
Packaging Information:

Tape Dimension :



| Series | A0 (mm) | B0 (mm) | D (mm) | P0 (mm) | P1 (mm) | W (mm) | K0 (mm) | E (mm) | T (mm) |
|----------|---------|---------|---------|---------|---------|----------|---------|----------|-----------|
| MDSA5030 | 5.5±0.1 | 5.9±0.1 | 1.5±0.1 | 4.0±0.1 | 8.0±0.1 | 12.0±0.3 | 3.3±0.1 | 1.75±0.1 | 0.35±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 | K+Printing (Inductance) |
|---------|-------------------------|

Reel Dimension: [mm]



Packaging Quantity: