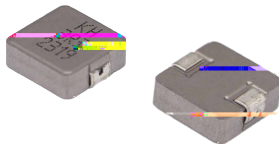


# MDSA Series

## SMD Low Profile High Current Molded Inductor

### Size 1040



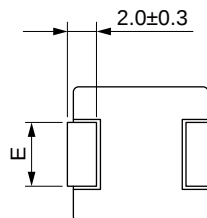
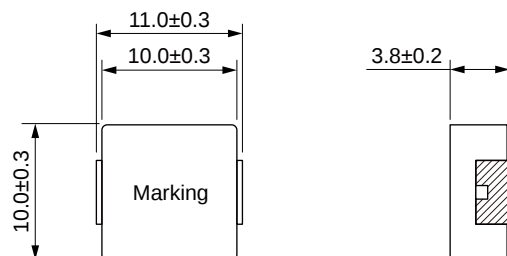
#### FEATURES

- 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.
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- 
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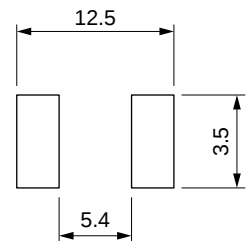
#### APPLICATION

- 
- 
- 

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

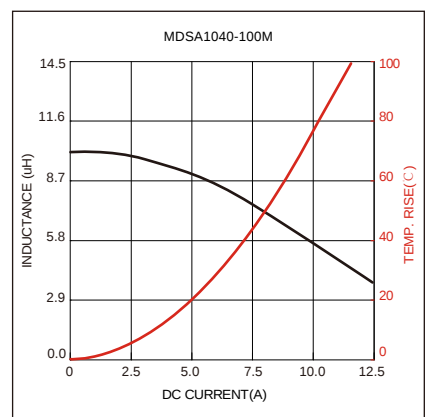
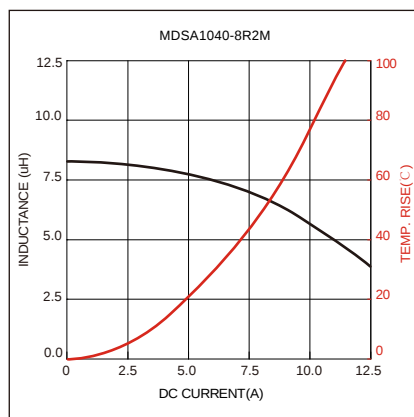
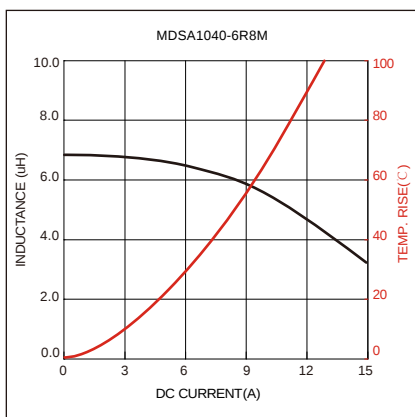
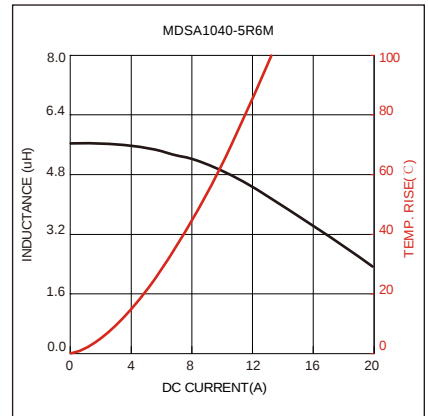
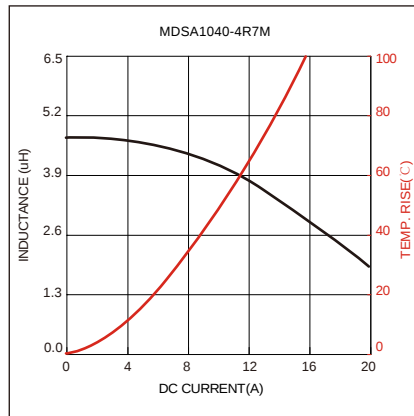
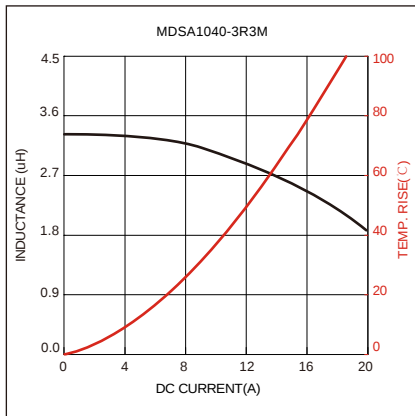
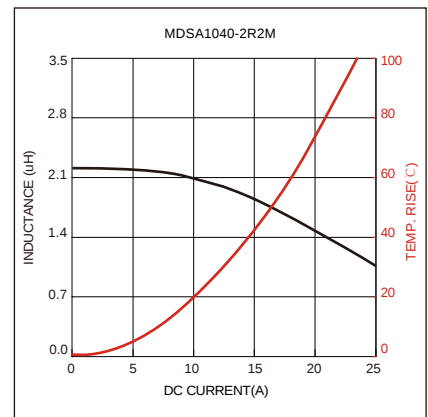
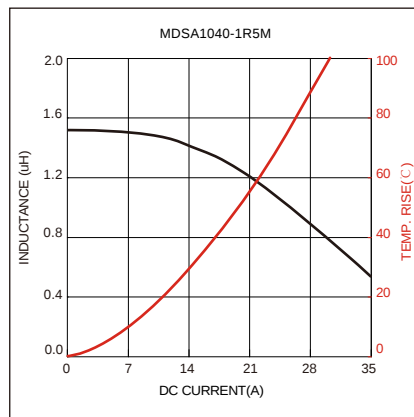
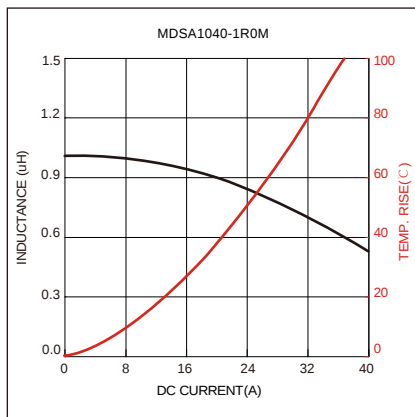
| MDSA1040-1R0M | 1.00 | ±20% | 19.0 | 28.0 | 3.00 |      |         |
|---------------|------|------|------|------|------|------|---------|
|               |      | ±20% | 16.8 |      | 3.80 | 4.40 |         |
| MDSA1040-2R2M | 2.20 | ±20% | 14.4 | 19.2 |      | 7.00 | 3.0±0.3 |
| MDSA1040-3R3M | 3.30 | ±20% |      | 16.8 | 10.7 | 12.0 | 3.0±0.3 |
| MDSA1040-4R7M | 4.70 | ±20% | 8.40 | 14.6 | 16.0 |      | 3.0±0.3 |
|               |      | ±20% | 7.60 |      | 19.2 | 23.3 | 3.0±0.3 |
| MDSA1040-6R8M | 6.80 | ±20% | 7.40 | 11.7 | 22.2 |      | 3.0±0.3 |
| MDSA1040-8R2M | 8.20 | ±20% | 7.20 | 9.00 |      | 29.0 | 3.0±0.3 |
| MDSA1040-100M | 10.0 | ±20% | 7.20 | 8.20 |      | 31.0 | 3.0±0.3 |
|               |      | ±20% |      | 6.70 | 42.0 | 46.0 | 3.0±0.3 |

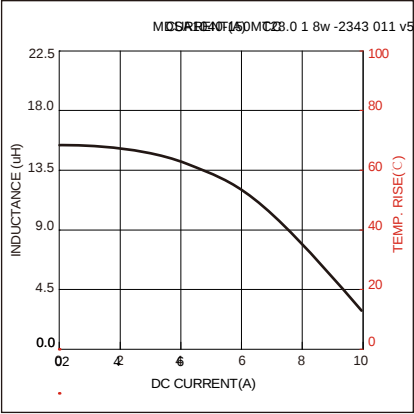
|               |      |      |      |      |     |      |         |
|---------------|------|------|------|------|-----|------|---------|
|               |      |      |      |      |     |      |         |
| MDSA1040-220M | 22.0 | ±20% | 4.70 |      |     | 67.0 | 3.0±0.3 |
| MDSA1040-330M | 33.0 | ±20% | 4.20 |      |     | 92.0 | 3.0±0.3 |
| MDSA1040-470M | 47.0 | ±20% | 3.30 | 4.70 | 126 | 144  | 3.0±0.3 |
| MDSA1040-680M | 68.0 | ±20% | 2.40 | 3.10 | 193 | 212  | 3.0±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  $\Delta T=40^{\circ}\text{C}$

## Typical Electrical Characteristics:



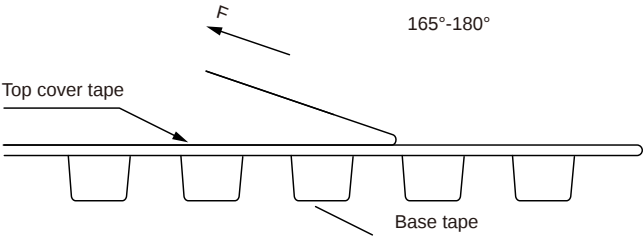


Soldering Reflow:

Packaging Information:

Tape Dimension:

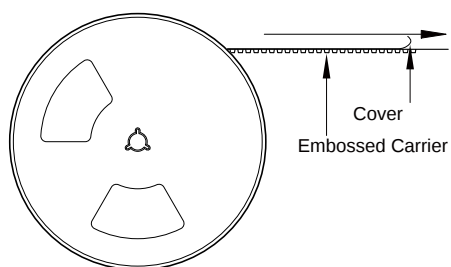
Peel force of top cover tape:



R f c nccj dmpac md rmn amtcp r\_nc qf \_jj `c `crucc l .,/ rm /,1 L



Reel Dimension: [mm]



Packaging Quantity: