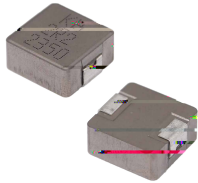


# MDSA Series

## SMD Low Profile High Current Molded Inductor

### Size 1360



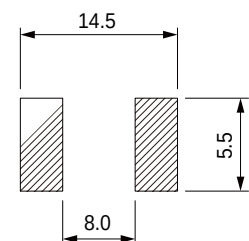
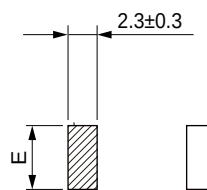
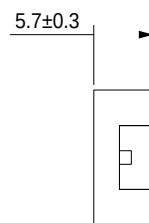
#### FEATURES

- 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

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Dimensions: [mm]



Land Pattern: [mm]

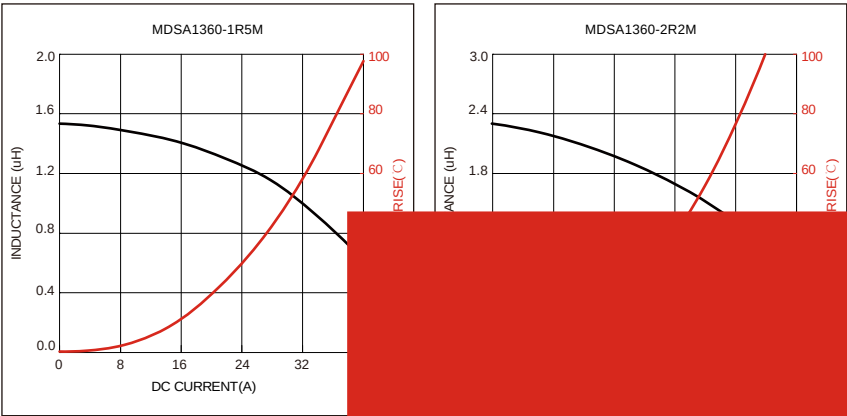
Electrical Properties:

| Part No       | Inductance<br>@ 100KHz/1V | Tolerance | Temperature<br>Rise Current<br>Typ.<br>(A) | Current<br>Typ.<br>(A) | DC<br>Resistance<br>Typ. | DC<br>Resistance<br>Max. | E       |
|---------------|---------------------------|-----------|--------------------------------------------|------------------------|--------------------------|--------------------------|---------|
| MDSA1360-1R5M |                           | ±20%      | 27.0                                       | 31.0                   | 3.00                     | 3.50                     | 4.0±0.3 |
| MDSA1360-2R2M |                           | ±20%      | 24.0                                       | 27.0                   | 4.00                     | 4.70                     | 4.7±0.3 |
| MDSA1360-3R3M | 3.30                      | ±20%      | 20.0                                       | 27.0                   | 5.70                     | 7.00                     | 4.7±0.3 |
| MDSA1360-4R7M | 4.70                      | ±20%      | 18.0                                       | 22.0                   | 7.80                     | 9.20                     | 4.7±0.3 |
| MDSA1360-8R2M | 8.20                      | ±20%      | 13.0                                       | 16.0                   | 14.0                     | 17.0                     | 4.7±0.3 |
| MDSA1360-100M | 10.0                      | ±20%      | 11.5                                       | 15.5                   | 16.8                     | 20.0                     | 4.7±0.3 |
| MDSA1360-150M | 15.0                      | ±20%      | 9.5                                        | 9.5                    | 25.0                     | 30.0                     | 4.7±0.3 |
| MDSA1360-220M | 22.0                      | ±20%      | 7.8                                        | 8.8                    | 32.0                     | 38.8                     | 4.7±0.3 |
| MDSA1360-330M | 33.0                      | ±20%      | 6.6                                        | 7.6                    | 57.0                     | 69.0                     | 4.7±0.3 |
| MDSA1360-470M | 47.0                      | ±20%      | 5.0                                        | 6.5                    | 78.0                     | 90.0                     | 4.7±0.3 |

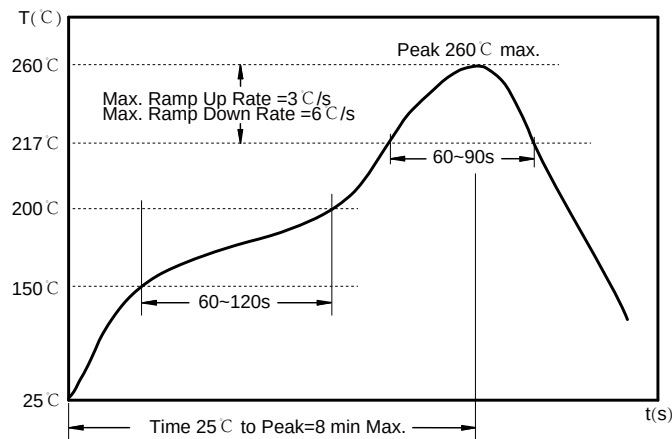
Saturation Current will cause L to drop approximately 30%

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

# Typical Electrical Characteristics:



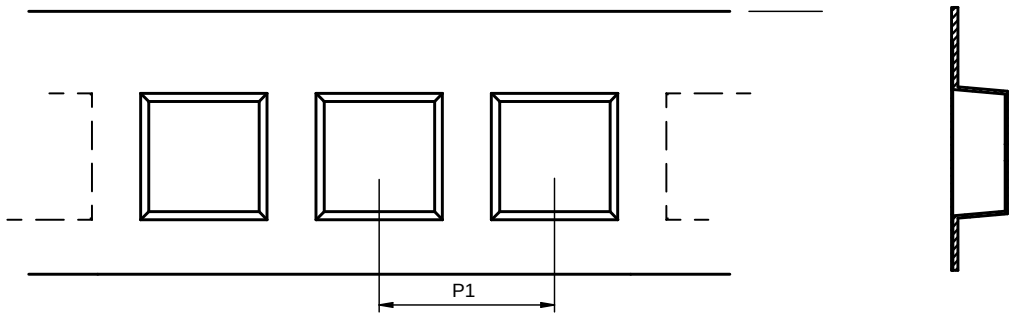
Soldering Reflow:



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.

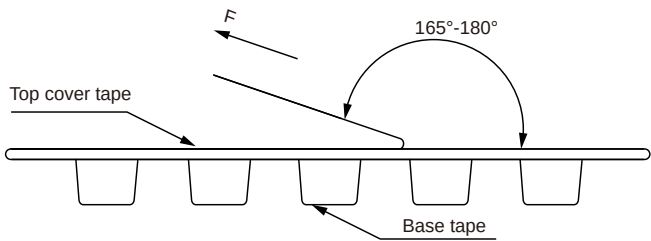
Packaging Information:

Tape Dimension :



| Series   | A0<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)   |
|----------|------------|------------|-----------|------------|------------|------------|------------|-----------|-------------|
| KBQ?/14. | /1,/ ® .,/ | /2,. ® .,/ | /,3® .,/  | 2,. ® .,/  | /4,. ® .,/ | 02,. ® .,1 | 4,1® .,/   | /,53® .,/ | .,3. ® .,.3 |

Peel force of top cover tape:



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

Product Marking:

|         |                         |
|---------|-------------------------|
| K_pigle | IF)NpgIrgle Glbsar_lac' |
|---------|-------------------------|

