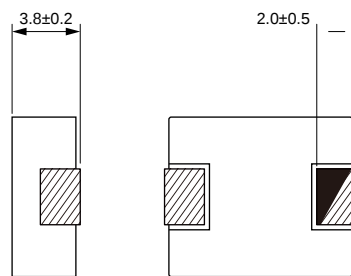


# Molding Power Inductors Size 1040



Electrical Properties:

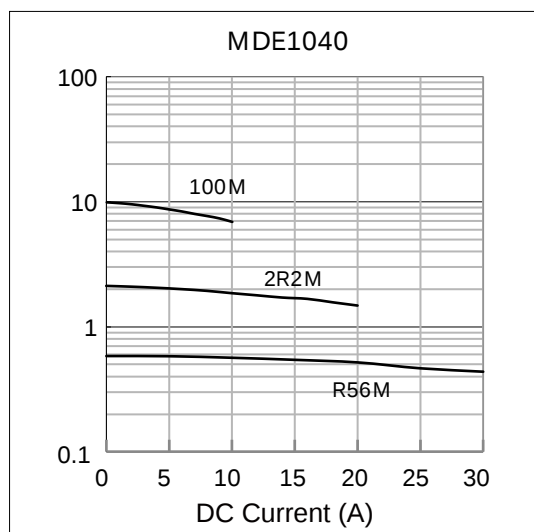
| Part No      | Inductance<br>@ 100kHz/1V | Tolerance | DC<br>Resistance<br>Max. | Current<br>Typ.<br>(A) | Temperature<br>Rise Current<br>Typ.<br>(A) |
|--------------|---------------------------|-----------|--------------------------|------------------------|--------------------------------------------|
| MDE1040-100M | 10.0                      | ±20%      | 30.0                     | 8.50                   | 7.80                                       |
| MDE1040-150M | 15.0                      | ±20%      | 45.0                     | 7.00                   | 6.50                                       |
| MDE1040-220M | 22.0                      | ±20%      | 66.0                     | 5.50                   | 5.00                                       |
| MDE1040-330M | 33.0                      | ±20%      | 92.0                     | 4.80                   | 4.40                                       |
| MDE1040-470M | 47.0                      | ±20%      | 145                      | 3.50                   | 3.30                                       |
| MDE1040-680M | 68.0                      | ±20%      | 195                      | 3.00                   | 2.50                                       |

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:

### Inductance vs DC Current Characteristics:



### Temperature Rise vs DC Current Characteristics:

