

## MD Series

### SMD Low Profile High Current Molded Inductor

#### Size 4020



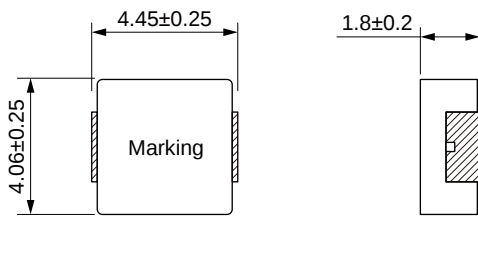
#### CHARACTERISTICS

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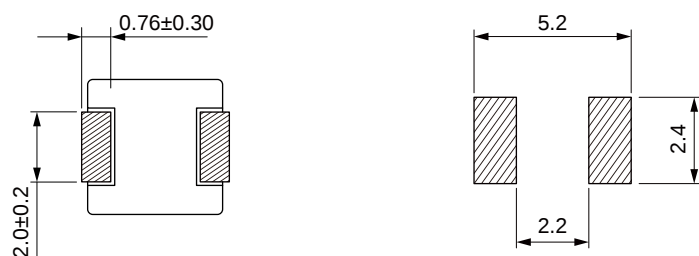
#### APPLICATION

- High current DC/DC converter
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Dimensions: [mm]



Land Pattern: [mm]

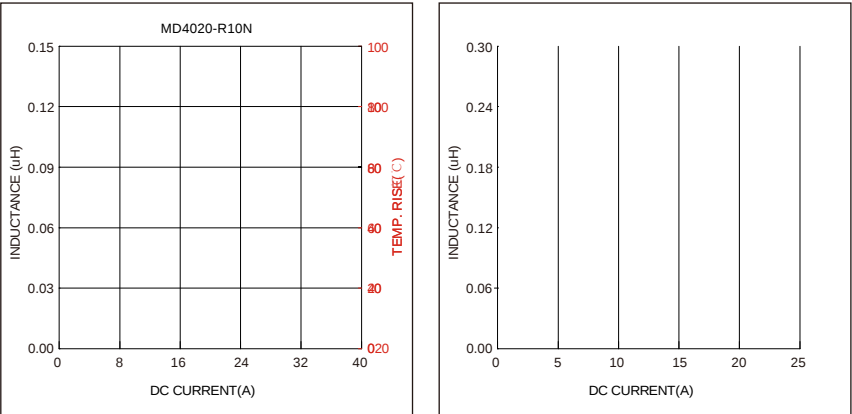


Electrical Properties:

| Part No     | Inductance<br>@ 100KHz/1V | Tolerance | Temperature<br>Rise Current<br>Typ. | Current<br>Typ. | DC<br>Resistance<br>Typ. | DC<br>Resistance<br>Max. |
|-------------|---------------------------|-----------|-------------------------------------|-----------------|--------------------------|--------------------------|
| MD4020-R10N | 0.10                      | ±30%      | 14.0                                | 35              | 3.20                     | 4.00                     |
| MD4020-R22N | 0.22                      | ±30%      | 13.0                                | 24              | 6.60                     | 7.30                     |
| MD4020-R33M | 0.33                      | ±20%      | 10.0                                | 18              | 7.80                     | 8.60                     |
| MD4020-R47M | 0.47                      | ±20%      | 8.00                                | 12              | 11.2                     | 14.0                     |
| MD4020-R56M | 0.56                      | ±20%      | 7.30                                | 10              | 13.5                     | 16.0                     |
| MD4020-R68M | 0.68                      | ±20%      | 7.00                                | 10              | 16.0                     | 19.0                     |
| MD4020-1R0M | 1.00                      | ±20%      | 5.00                                | 8.5             | 22.0                     | 27.0                     |
| MD4020-1R5M | 1.50                      | ±20%      | 4.50                                | 7.0             | 34.8                     | 42.0                     |
| MD4020-2R2M | 2.20                      | ±20%      | 4.00                                | 6.0             | 51.0                     | 61.0                     |
| MD4020-3R3M | 3.30                      | ±20%      | 3.50                                | 4.0             | 69.0                     | 76.0                     |
| MD4020-4R7M | 4.70                      | ±20%      | 2.60                                | 3.5             | 95.0                     | 105                      |
| MD4020-5R6M | 5.60                      | ±20%      | 2.20                                | 3.0             | 112                      | 125                      |
| MD4020-6R8M | 6.80                      | ±20%      | 2.10                                | 2.8             | 150                      | 172                      |
| MD4020-8R2M | 8.20                      | ±20%      | 2.00                                | 2.5             | 158                      | 180                      |
| MD4020-100M | 10.0                      | ±20%      | 1.80                                | 2.3             | 215                      | 243                      |
| MD4020-150M | 15.0                      | ±20%      | 1.50                                | 1.9             | 325                      | 374                      |
| MD4020-220M | 22.0                      | ±20%      | 1.20                                | 1.4             | 470                      | 500                      |

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Typical Electrical Characteristics:



## Typical Electrical Characteristics:

