

## MDTE Series

### Wire Wound Molded SMD Power Inductors

#### Size 5030

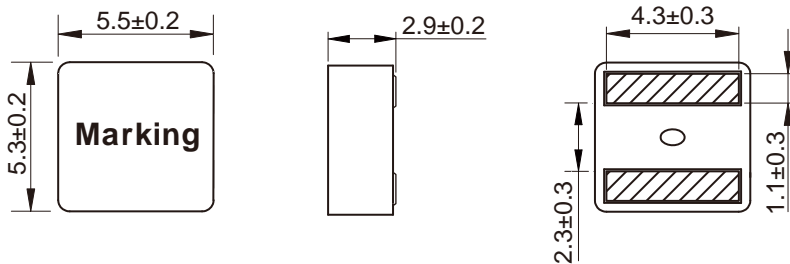
#### FEATURES

- So saturation
- High current, low DCR, high efficiency
- Very low acoustic noise and very low leakage flux noise
- High reliability
- 100% Lead (Pb)-Free and RoHS compliant
- Operating temperature -55~+125 (Including self-temperature rise)
- Quantity: 2000pcs

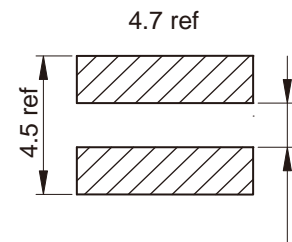
#### APPLICATION

Note PC power system, incl. IMVP-6  
DC/DC converter

#### Dimensions: [mm]



#### Land Pattern: [mm]



#### Electrical Properties:

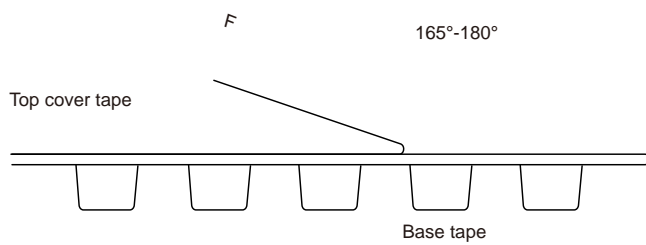
| Part No       | Inductance<br>@ 100KHz/0.1V | Tolerance | Current<br>Typ. | Current<br>Max. | Temperature<br>Rise Current<br>Typ. | DC<br>Resistance<br>Max. |
|---------------|-----------------------------|-----------|-----------------|-----------------|-------------------------------------|--------------------------|
| MDTE5030-R15M | 0.15                        | ±20%      | 36.0            | 32.5            | 22.2                                | 2.31                     |
| MDTE5030-R16M | 0.16                        | ±20%      | 35.0            | 32.0            | 22.2                                | 2.33                     |
| MDTE5030-R33M | 0.33                        | ±20%      | 28.0            | 26.0            | 19.2                                | 3.52                     |
| MDTE5030-R47M | 0.47                        | ±20%      | 26.0            | 24.0            | 18.4                                | 4.13                     |
| MDTE5030-R56M | 0.56                        | ±20%      | 22.2            | 20.2            | 17.7                                | 4.52                     |
| MDTE5030-R60M | 0.60                        | ±20%      | 22.0            | 20.0            | 17.7                                | 4.52                     |
| MDTE5030-R80M | 0.80                        | ±20%      | 20.0            | 18.0            | 13.1                                | 5.65                     |
| MDTE5030-R82M | 0.82                        | ±20%      | 19.7            | 17.6            | 12.9                                | 5.78                     |
| MDTE5030-1R0M | 1.00                        | ±20%      | 16.5            | 14.3            | 12.2                                | 7.60                     |
| MDTE5030-1R2M | 1.20                        | ±20%      | 15.0            | 13.5            | 11.0                                | 9.70                     |
| MDTE5030-1R5M | 1.50                        | ±20%      | 14.0            | 12.5            | 10.5                                | 11.                      |
| MDTE5030-1R8M | 1.80                        | ±20%      | 12.3            | 11.3            | 10.1                                | 2                        |
| MDTE5030-2R2M | 2.20                        | ±20%      | 10.0            | 9.00            | 9.70                                | 1 1                      |
| MDTE5030-3R3M | 3.30                        | ±20%      | 9.50            | 8.70            | 8.10                                | 5. 0                     |
| MDTE5030-4R7M | 4.70                        | ±20%      | 8.20            | 7.00            | 5.90                                | 10.0                     |

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is T=40°C



Peel force of top cover tape:



Reel Dimension : [mm]



Packaging Quantity: