

# MDTE Series

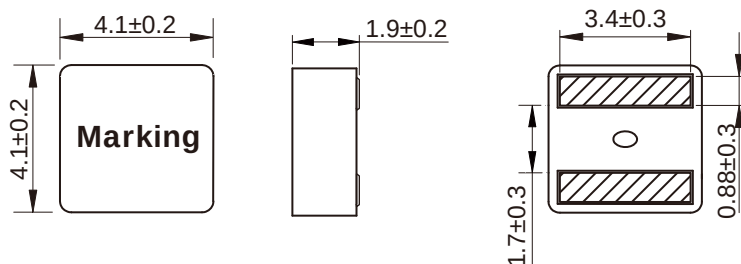
## Wire Wound Molded SMD Power Inductors

### Size 4020

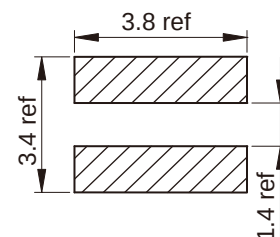
#### FEATURES

- 2D & 3D Models
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#### Dimensions: [mm]



#### Land Pattern: [mm]



#### Electrical Properties:

| Part No       |      | Tolerance  |      |      |      |      |
|---------------|------|------------|------|------|------|------|
| MDTE4020-R10M | 0.10 | $\pm 20\%$ | 38.0 | 33.0 | 18.0 | 2.42 |
| MDTE4020-R22M | 0.22 | $\pm 20\%$ | 19.5 | 18.8 | 16.8 | 4.60 |
| MDTE4020-R36M | 0.36 | $\pm 20\%$ | 17.0 | 15.0 | 14.5 | 6.30 |
| MDTE4020-R40M | 0.40 | $\pm 20\%$ | 15.5 | 13.5 | 14.0 | 7.73 |
| MDTE4020-R47M | 0.47 | $\pm 20\%$ | 14.5 | 13.0 | 12.5 | 8.58 |
| MDTE4020-R56M | 0.56 | $\pm 20\%$ | 14.0 | 12.6 | 12.0 | 9.30 |
| MDTE4020-R60M | 0.60 | $\pm 20\%$ | 13.7 | 12.3 | 11.7 | 9.52 |
| MDTE4020-R72M | 0.72 | $\pm 20\%$ | 12.0 | 10.6 | 10.5 | 11.6 |
| MDTE4020-1R0M | 1.00 | $\pm 20\%$ | 9.6  | 8.8  | 9.6  | 14.6 |
| MDTE4020-1R2M | 1.20 | $\pm 20\%$ | 9.0  | 7.8  | 9.0  | 17.9 |
| MDTE4020-1R5M | 1.50 | $\pm 20\%$ | 8.0  | 7.4  | 7.6  | 23.5 |
| MDTE4020-1R8M | 1.80 | $\pm 20\%$ | 7.5  | 7.0  | 7.0  | 28.0 |
| MDTE4020-2R2M | 2.20 | $\pm 20\%$ | 6.5  | 6.0  | 5.6  | 38.7 |

Saturation Current will cause L to drop approximately 30%

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

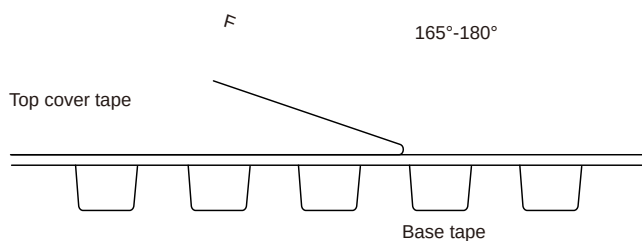
## Soldering Reflow:

## Packaging Information:

### Tape Dimension:

| Series   | A0<br>(mm)    | B0<br>(mm)    |               |               |               |
|----------|---------------|---------------|---------------|---------------|---------------|
| MDTE4020 | $4.5 \pm 0.1$ | $4.5 \pm 0.1$ | $1.5 \pm 0.1$ | $4.0 \pm 0.1$ | $8.0 \pm 0.1$ |

### Peel force of top cover tape:



The peel force of top cover tape shall be between 0.1 to 1.3 N

Reel Dimension: [mm]

|  |  |
|--|--|
|  |  |
|--|--|

Packaging Quantity: