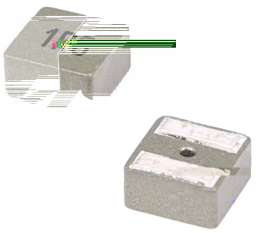
# Wire Wound Molded SMD Power Inductors
# Size 7020



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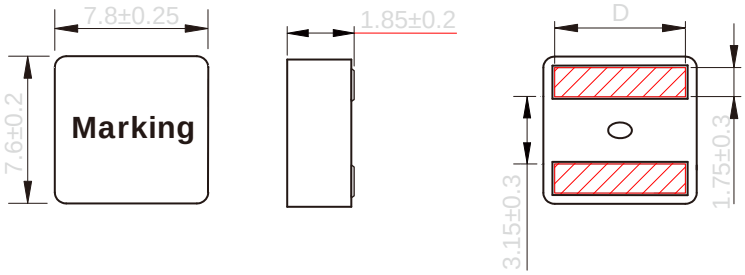
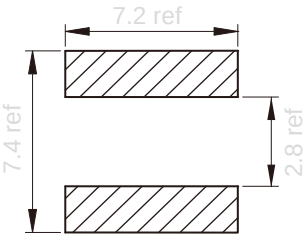
- High current,low DCR,high e ciency
- Very low acous c noise and very low leakage flux noise
- High reliability
- 100% Lead(Pb)-Free and RoHS compliant
- Opera ng temperature -55~+125℃(Including self - temperature rise)
- Quan ty: 2000pcs

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

## Dimensions: [mm]




## Land Pattern: [mm]




## Electrical Properties:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MDTE7020-R27M | 0.27 | ±20% | 35 | 32 | 21 | 3.5 | 6.6±0.3 |
| MDTE7020-R31M | 0.31 | ±20% | 34 | 31 | 20 | 4.8 | 6.2±0.3 |
| MDTE7020-R33M | 0.33 | ±20% | 34 | 31 | 19 | 4.8 | 6.2±0.3 |
| MDTE7020-R47M | 0.47 | ±20% | 28 | 25 | 17 | 6.2 | 6.2±0.3 |
| MDTE7020-R68M | 0.68 | ±20% | 25 | 23 | 13 | 9.2 | 6.2±0.3 |
| MDTE7020-1R0M | 1.00 | ±20% | 23 | 20 | 11 | 10.8 | 6.2±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 △T=40°C

## Soldering Reflow:

Preheat condition: 150 ~200℃/ 60~120 sec.

Allowed time above 217℃: 60~90 sec.

Max temperature: 260℃.

Max time at max temperature: 10 sec.

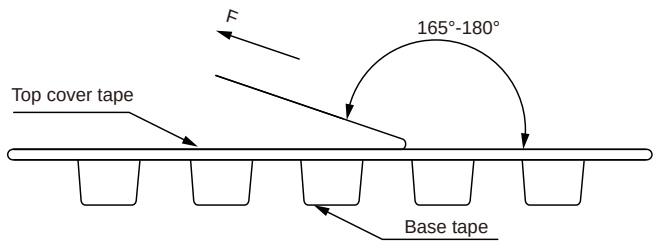
Allowed Reflow time: 2x max.

## Packaging Information:

Tape Dimension:

| Series | A0 (mm) | B0 (mm) | D (mm) | P0 (mm) | P1 (mm) | W (mm) | K0 (mm) | E (mm) | T (mm) |
|---|---|---|---|---|---|---|---|---|---|
| MDTE7020 | 8.2±0.1 | 8.0±0.1 | 1.5±0.1 | 4.0±0.1 | 12.0±0.1 | 16.0±0.3 | 2.3±0.1 | 1.75±0.1 | 0.35±0.05 |

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: