



# MDTE Series

## Wire Wound Molded SMD Power Inductors

### Size 5050

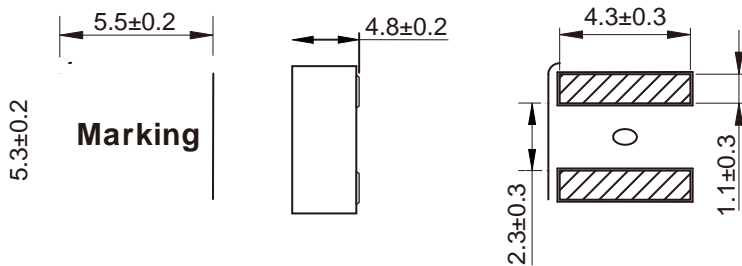
#### FEATURES

- 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°C (Including self-temperature rise)
- Quantity: 1500pcs

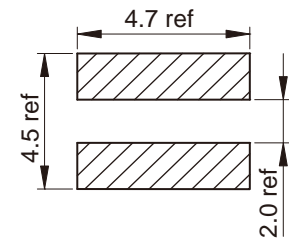
#### APPLICATION

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

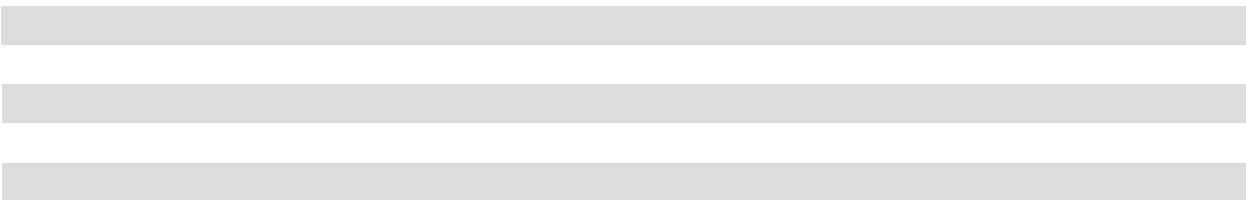
#### Dimensions: [mm]



#### Land Pattern: [mm]



#### Electrical Properties:

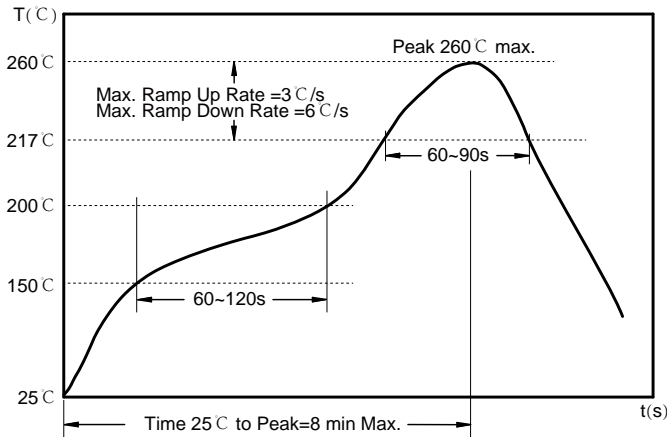


Saturation Current will cause L to drop approximately 30%

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



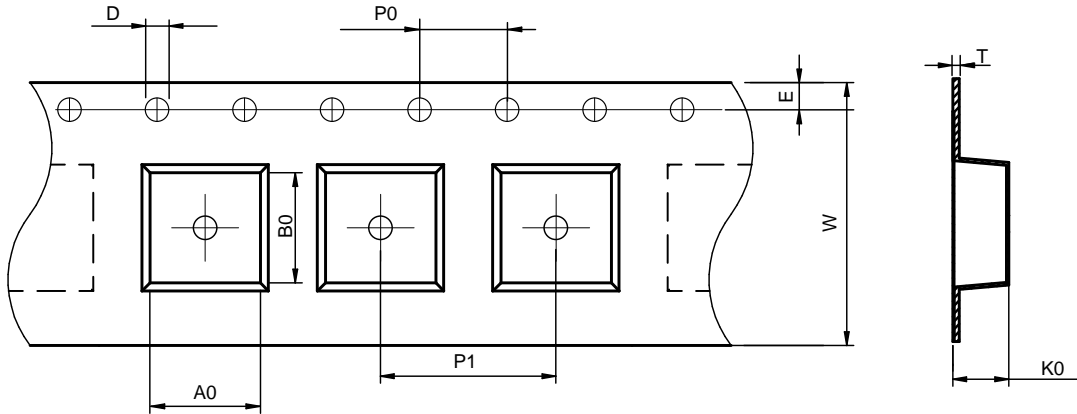
## Soldering Reflow:



Preheat condition: 150 ~200°C / 60~120 sec.  
 Allowed time above 217°C: 60~90 sec.  
 Max temperature: 260°C.  
 Max time at max temperature: 10 sec.  
 Allowed Reflow time: 2x max.

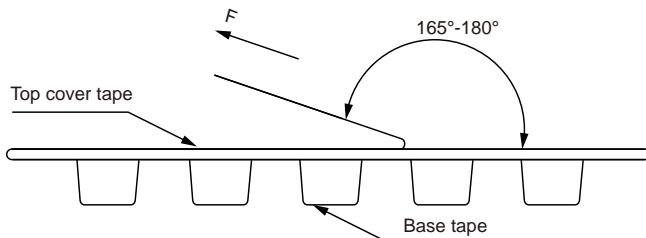
## Packaging Information:

### Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTE5050	6.0± 0.1	5.7± 0.1	1.5± 0.1	4.0± 0.1	8.0± 0.1	16.0± 0.3	5.3± 0.1	1.75± 0.1	0.35± 0.05

### Peel force of top cover tape:



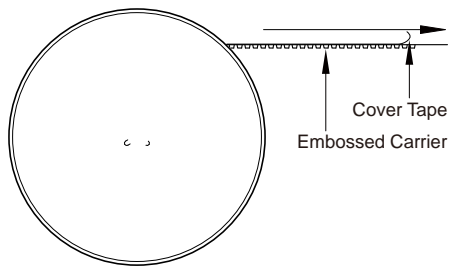
The peel force of top cover tape shall be between 0.1 to 1.3 N

### Product Marking:

Marking	Printing Inductance)
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Reel Dimension: [mm]



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Packaging Quantity: