

MDTE Series

Wire Wound Molded SMD Power Inductors Size 5050

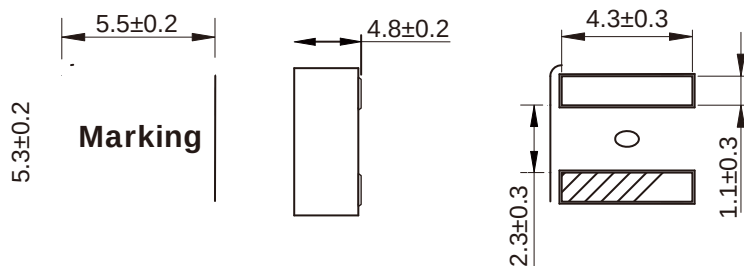
FEATURES

- 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

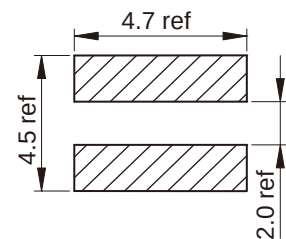
APPLICATION

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

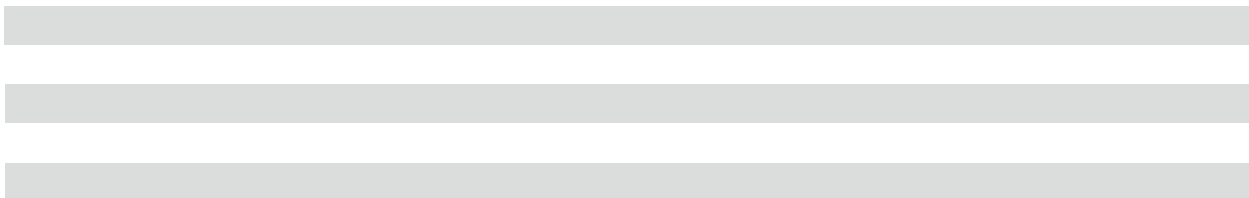
Dimensions: [mm]



Land Pattern: [mm]



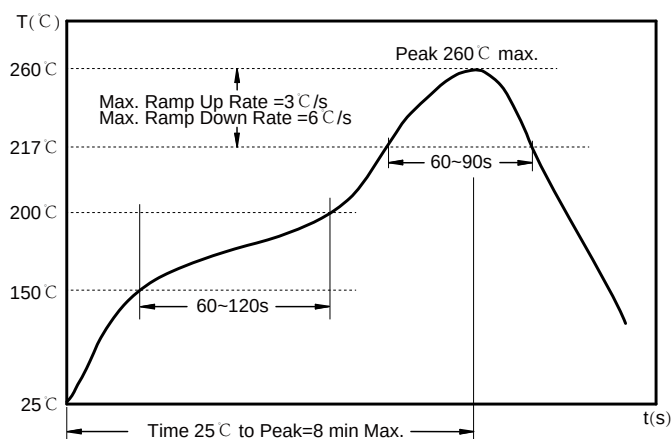
Electrical Properties:



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.

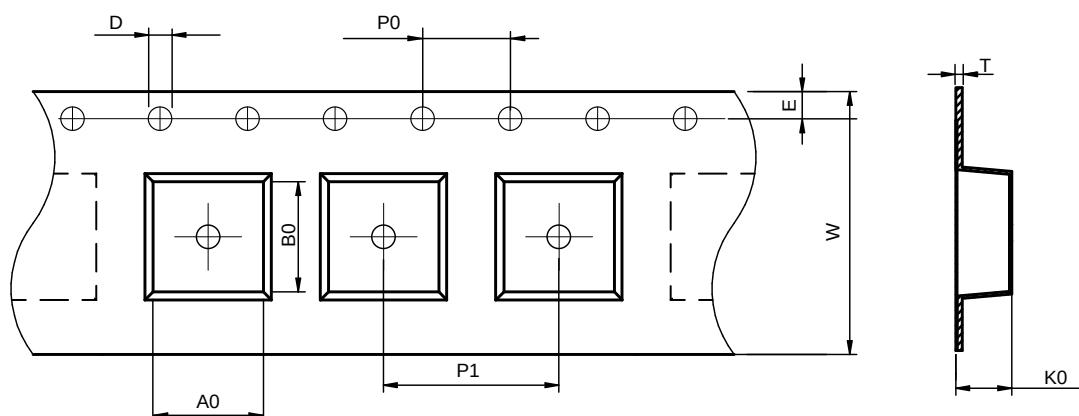
Max temperature: 260 °C.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

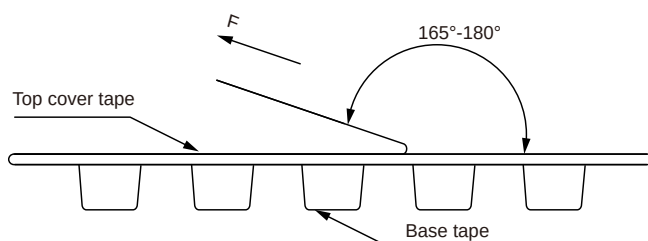
Packaging Information:

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]



Packaging Quantity: