

MDTE Series

Wire Wound Molded SMD Power Inductors

Size 6060

FEATURES

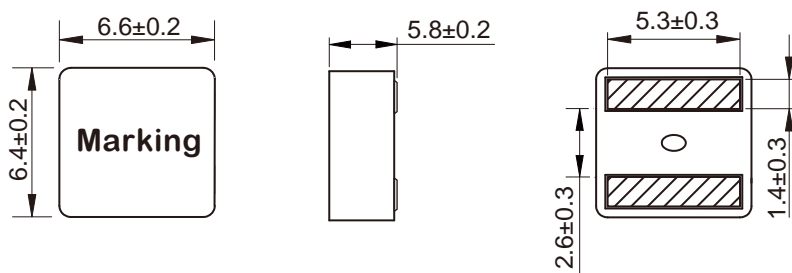
- So saturation
- High current, low DCR, high efficiency
- Very low acoustic noise and very low leakage flux noise
- High reliability
- 100% Lead (Pb)-Free and RoHS compliant
- Operating temperature -55~+125°C (Including self-temperature rise)
- Quantity: 750pcs



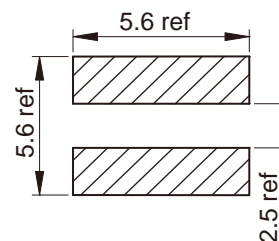
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



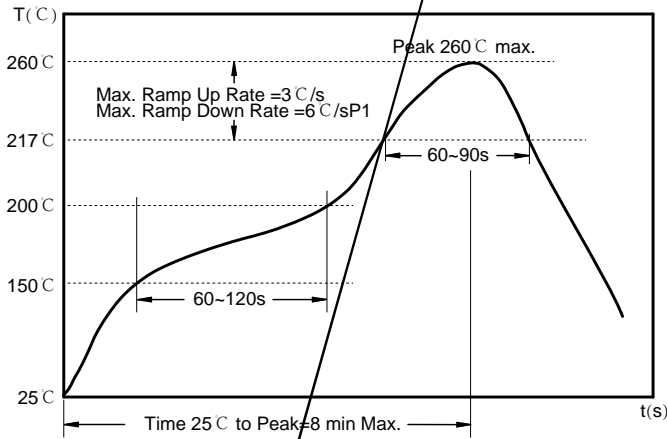
Electrical Properties:

Part Number	DC Current (A)	DC Resistance (mΩ)	Inductance (μH)	DC Saturation Current (A)	DC Saturation Inductance (μH)	DC Saturation Inductance (mH)
MDTE6060-1R0M	1.0	±20%	24.0	19.0	21.0	4.40
MDTE6060-1R5M	1.5	±20%	20.0	15.0	17.5	6.10
MDTE6060-2R2M	2.2	±20%	16.5	12.5	14.0	8.10
MDTE6060-3R3M	3.3	±20%	13.0	11.0	12.0	12.3
MDTE6060-4R7M	4.7	±20%	10.5	9.3	11.0	14.4
MDTE6060-5R6M	5.6	±20%	9.9	8.7	10.0	15.9
MDTE6060-6R8M	6.8	±20%	9.2	8.1	9.0	20.8
MDTE6060-8R2M	8.2	±20%	8.4	8.0	8.0	26.4
MDTE6060-100M	10	±20%	7.6	6.8	7.0	29.82
MDTE6060-150M	15	±20%	5.8	5.0	6.0	43.75
MDTE6060-220M	22	±20%	5.6	4.8	5.0	60.63

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.

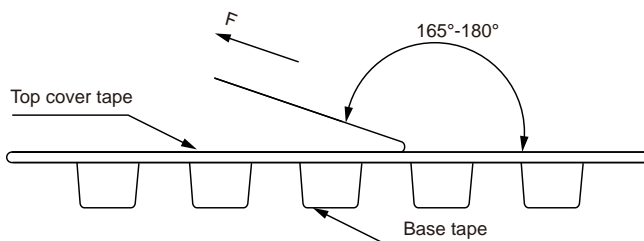
Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension:

Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTE6060	7.0±0.1	6.8±0.1	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	6.3±0.1	1.75±0.1	0.35±0.05

Peel force of top cover tape:

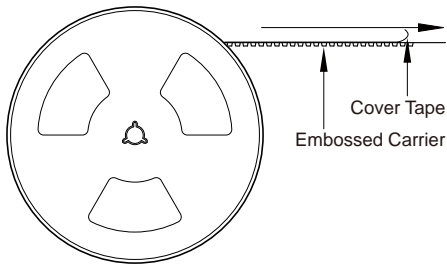


The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking	Printing (Inductance)
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Reel Dimension: [mm]



Packaging Quantity: