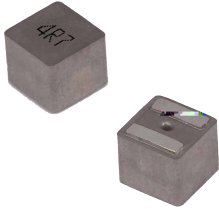


MDTE Series

Wire Wound Molded SMD Power Inductors

Size 1010



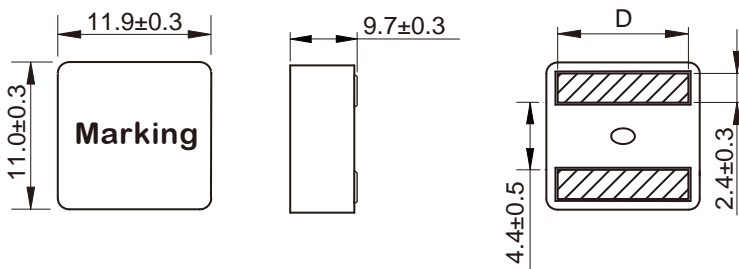
FEATURES

- Soft 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: 300pcs

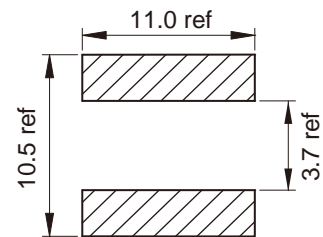
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



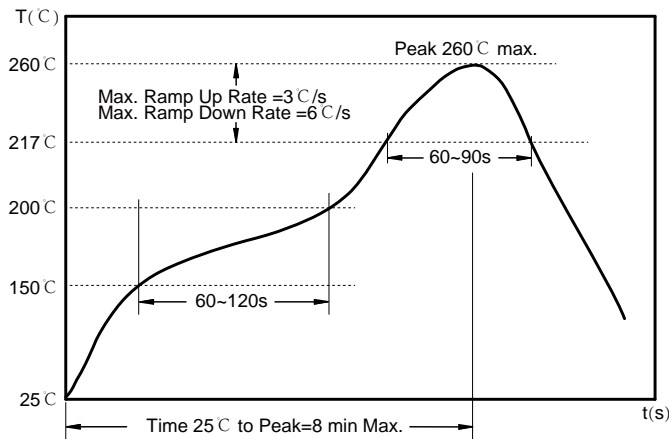
Electrical Properties:

Part No	Inductance @ 100KHz/0.1V (μ H)	Tolerance	Saturation Current Typ. (A)	Saturation Current Max. (A)	Temperature Rise Current Typ. (A)	DC Resistance Max. (m Ω)	D (mm)
MDTE1010-2R2M	2.20	±20%	34.0	29.0	32.0	2.8	9.3±0.5
MDTE1010-3R3M	3.30	±20%	27.4	23.4	25.0	4.1	9.3±0.5
MDTE1010-4R7M	4.70	±20%	25.4	21.4	24.0	5.7	9.3±0.5
MDTE1010-5R6M	5.60	±20%	23.6	19.6	21.2	7.2	9.3±0.5
MDTE1010-6R8M	6.80	±20%	21.8	18.5	18.5	8.9	9.0±0.5
MDTE1010-8R2M	8.20	±20%	18.3	16.3	17.1	12.4	9.0±0.5
MDTE1010-100M	10.0	±20%	17.5	14.6	15.5	13.75	9.0±0.5
MDTE1010-150M	15.0	±20%	15.5	12.5	13.8	19.30	9.0±0.5

Saturation Current will cause L to drop approximately 30%

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

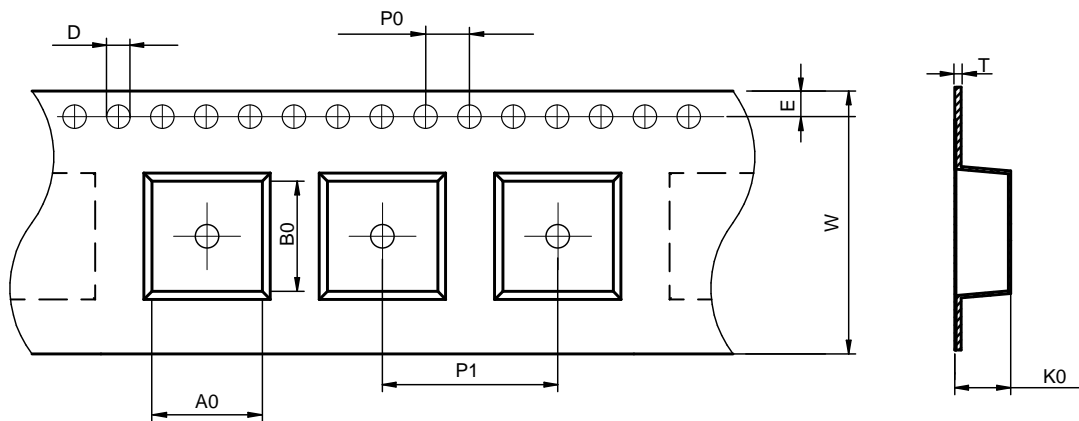
Soldering Reflow:



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.

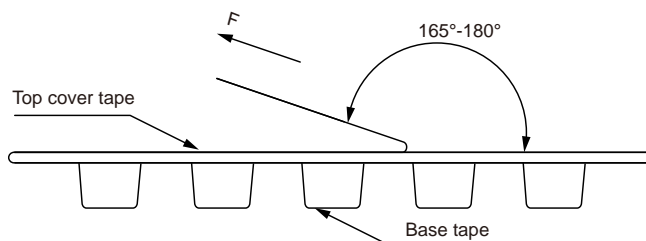
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTE1010	12.4±0.1	11.5±0.1	1.5±0.1	4.0±0.1	16.0±0.1	24.0±0.3	10.3±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: