



MDTE Series

Wire Wound Molded SMD Power Inductors

Size 8080



FEATURES

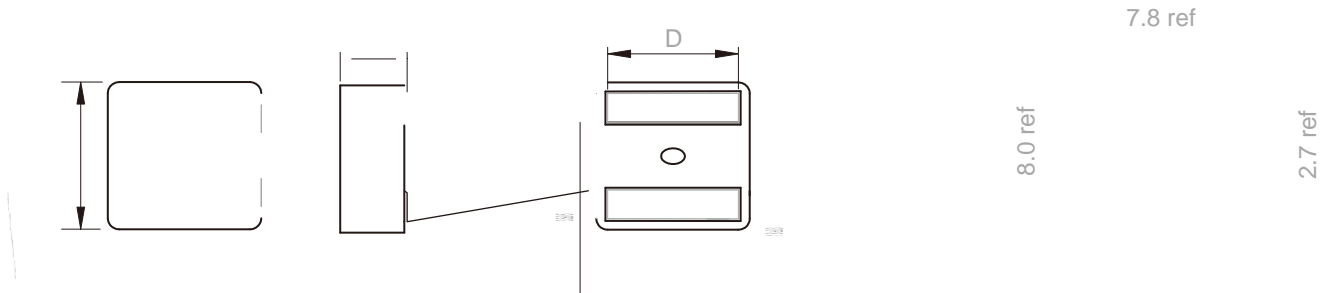
- So saturation
- High current, low DCR, high efficiency
- Very low acoustic noise and very low leakage flux noise
- High reliability
- 100% Lead (Pb)-Free and RoHS compliant
- Operating temperature -55~+125°C (Including self-temperature rise)
- Quantity: 450pcs

APPLICATION

- Note PC power sys
- 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)
MDTE8080-1R8M	1.80	$\pm 20\%$	28.0	24.0	24.0	4.0	7.2 \pm 0.3
MDTE8080-2R2M	2.20	$\pm 20\%$	25.0	22.0	21.5	4.3	7.2 \pm 0.3
MDTE8080-3R3M	3.30	$\pm 20\%$	23.0	20.0	18.0	7.3	6.9 \pm 0.3
MDTE8080-4R7M	4.70	$\pm 20\%$	19.0	17.0	14.6	9.8	6.9 \pm 0.3
MDTE8080-6R8M	6.80	$\pm 20\%$	14.5	12.5	11.3	14.3	6.9 \pm 0.3
MDTE8080-100M	10.0	$\pm 20\%$	11.0	10.0	8.7	22.9	6.9 \pm 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 $\Delta T=40^{\circ}\text{C}$

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.

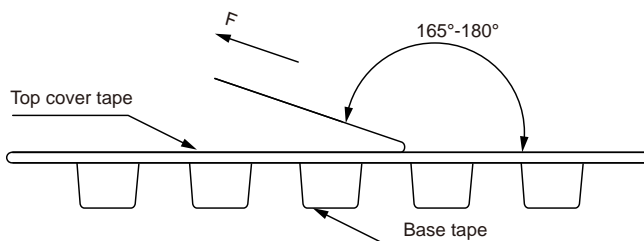
Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension:

Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTE8080	9.4±0.1	8.9±0.1	1.5±0.1	4.0±0.1	16.0±0.1	24.0±0.3	8.5±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: