MDTE Series

Wire Wound Molded SMD Power Inductors

Size 8080



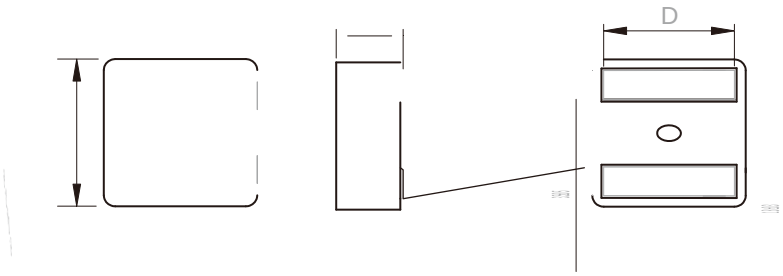
FEATURES

- So satura on
- High current,low DCR,high e ciency
- Very low acous c noise and very low leakage flux noise
- High reliability
- 100% Lead(Pb)-Free and RoHS compliant
- Opera ng temperature -55~+125℃(Including self - temperature rise)
- Quan ty: 450pcs

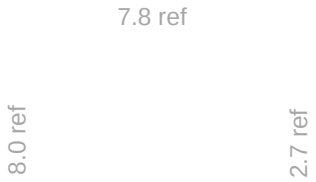
APPLICATION

- Note PC power sys
- DC/DC converter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @ 100KHz/0.1V (μH)	Tolerance	Satura on Current Typ. (A)	Satura on Current Max. (A)	Temperature Rise Current Typ. (A)	DC Resistance Max. (mΩ)	D (mm)
MDTE8080-1R8M	1.80	±20%	28.0	24.0	24.0	4.0	7.2±0.3
MDTE8080-2R2M	2.20	±20%	25.0	22.0	21.5	4.3	7.2±0.3
MDTE8080-3R3M	3.30	±20%	23.0	20.0	18.0	7.3	6.9±0.3
MDTE8080-4R7M	4.70	±20%	19.0	17.0	14.6	9.8	6.9±0.3
MDTE8080-6R8M	6.80	±20%	14.5	12.5	11.3	14.3	6.9±0.3
MDTE8080-100M	10.0	±20%	11.0	10.0	8.7	22.9	6.9±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 △T=40°C

Soldering Reflow:

Preheat condition: 150 ~200℃/ 60~120 sec.

Allowed time above 217℃: 60~90 sec.

Max temperature: 260℃.

Max time at max temperature: 10 sec.

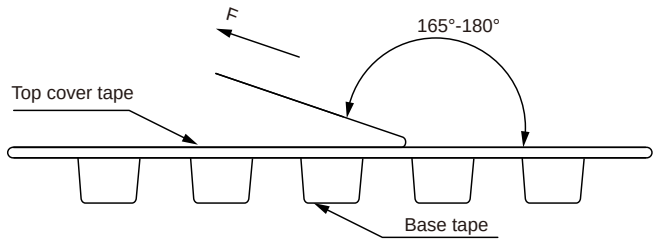
Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension:

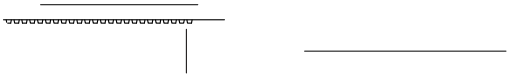
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTE8080	9.4±0.1	8.9±0.1	1.5±0.1	4.0±0.1	16.0±0.1	24.0±0.3	8.5±0.1	1.75±0.1	0.35±0.05

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: