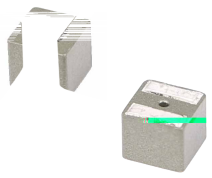
MDTE Series

Wire Wound Molded SMD Power Inductors

Size 7070



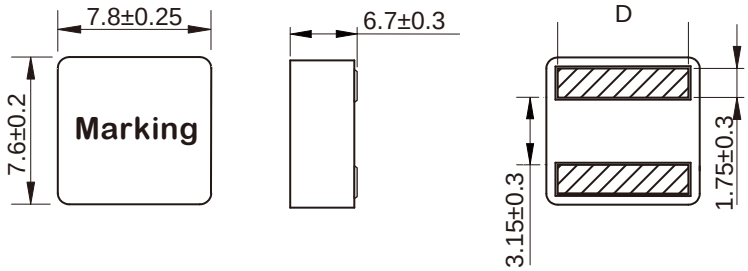
FEATURES

- 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: 700pcs

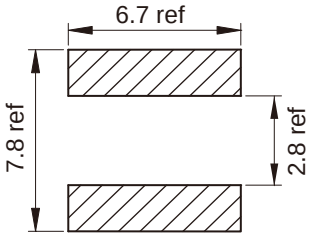
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

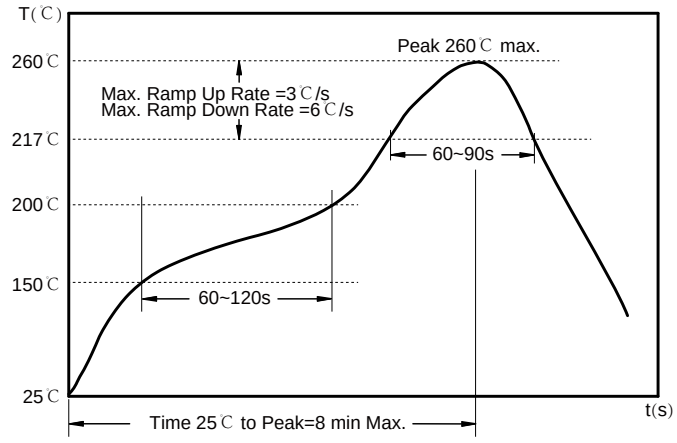
Part No	Inductance @ 100KHz/0.1V	Tolerance	Current Typ.	Current Max.	Temperature Rise Current Typ.	DC Resistance Max.	D
MDTE7070-1R0M	1.0	±20%	34.8	31.8	25.0	2.81	6.7±0.3
MDTE7070-1R8M	1.8	±20%	25.0	23.0	21.0	4.46	6.7±0.3
MDTE7070-3R3M	3.3	±20%	19.4	15.1	15.1	9.42	6.7±0.3
MDTE7070-4R7M	4.7	±20%	15.5	14.0	13.6	13.5	6.7±0.3
MDTE7070-6R8M	6.8	±20%	12.8	11.0	9.5	19.6	6.5±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

KOHER Electronic
4546 BATES DRIVE, YORBLINDA CA 92886 USA
714-325-4789 Contact@kohergroup.com

Soldering Reflow:



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

Allowed time above 217℃: 60~90 sec.

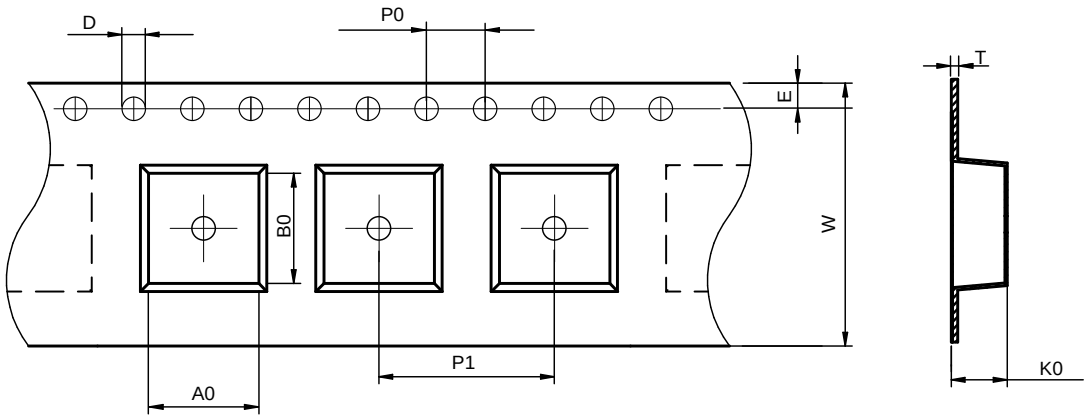
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

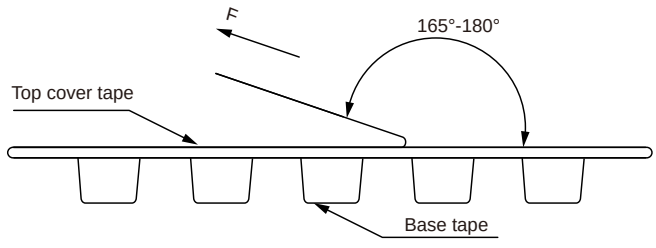
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTE7070	8.2±0.1	8.0±0.1	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	7.3±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)

Reel Dimension：[mm]



Packaging Quantity: