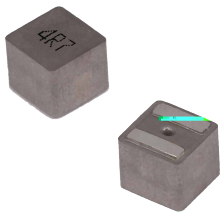
MDTE Series

Wire Wound Molded SMD Power Inductors

Size 1010



FEATURES

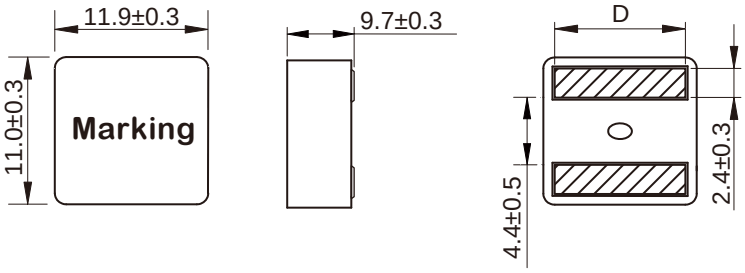
-
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℃

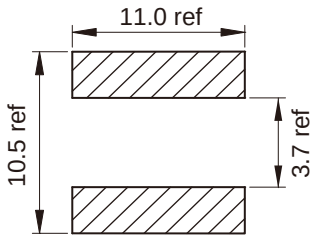
APPLICATION

-
-

Dimensions: [mm]



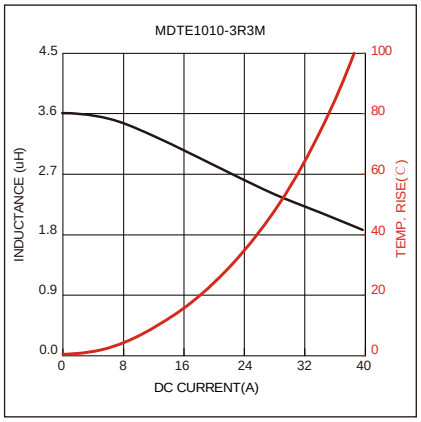
Land Pattern: [mm]

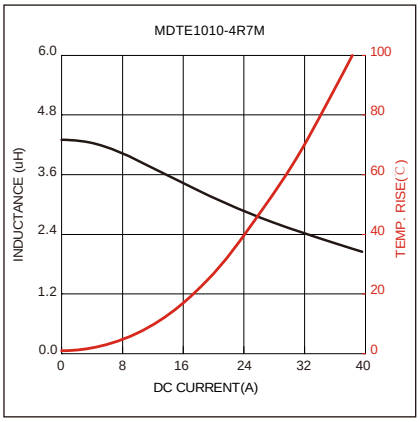


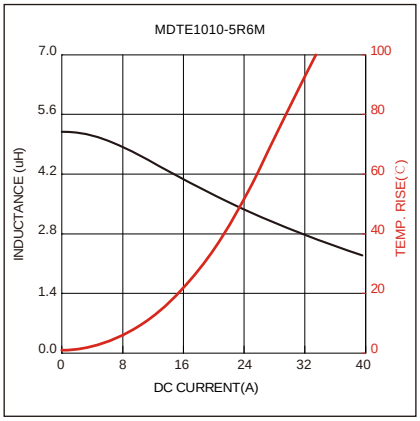
Electrical Properties:

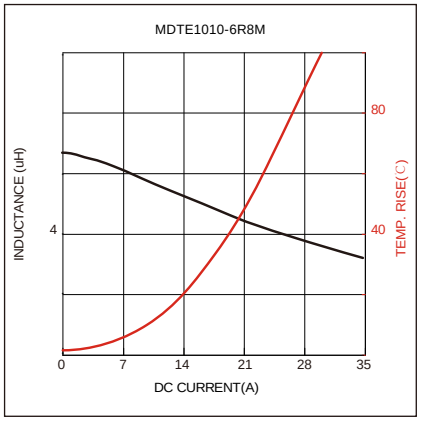
Saturation Current will cause L to drop approximately 30%

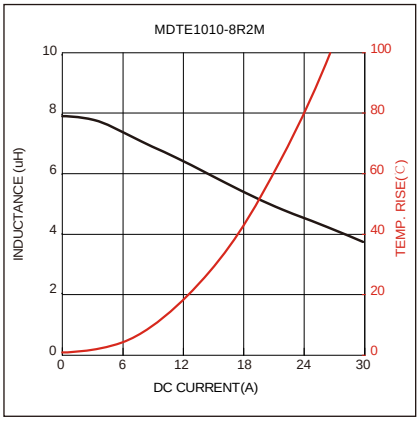
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

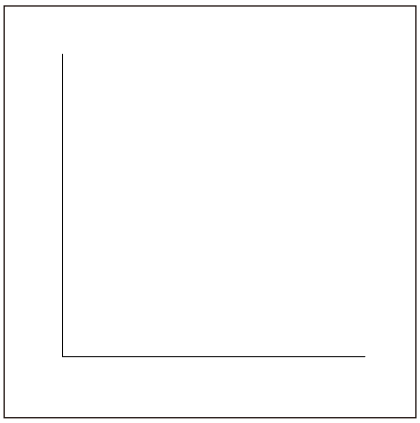

MDTE1010-3R3M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
4.5
3.6
2.7
1.8
0.9
0.0
100
80
60
40
20
0
0
8
16
24
32
40


MDTE1010-4R7M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
6.0
4.8
3.6
2.4
1.2
0.0
100
80
60
40
20
0
0
8
16
24
32
40

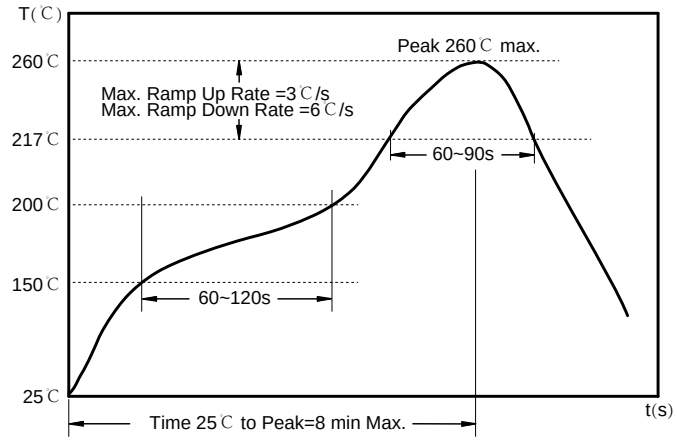

MDTE1010-5R6M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
7.0
5.6
4.2
2.8
1.4
0.0
100
80
60
40
20
0
0
8
16
24
32
40


MDTE1010-6R8M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
4
80
40
0
7
14
21
28
35


MDTE1010-8R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
10
8
6
4
2
0
100
80
60
40
20
0
0
6
12
18
24
30



Soldering Reflow:



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

Allowed time above 217℃: 60~90 sec.

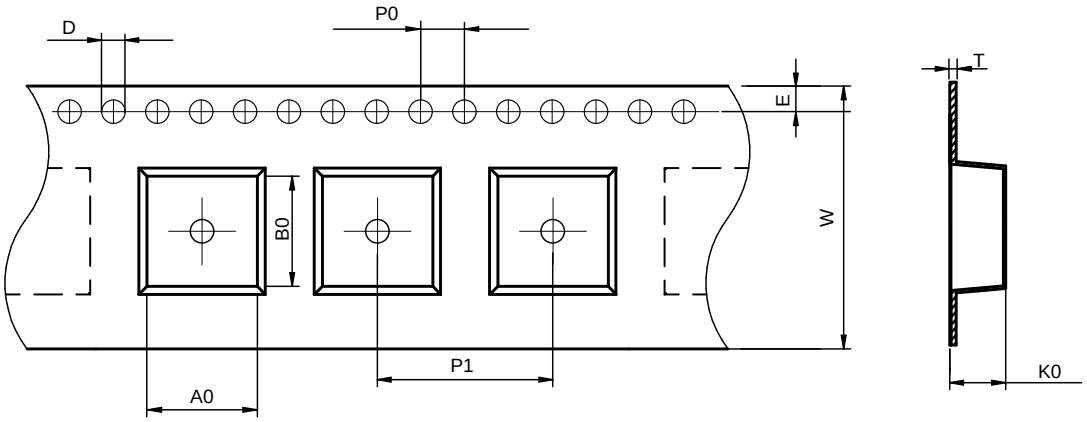
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

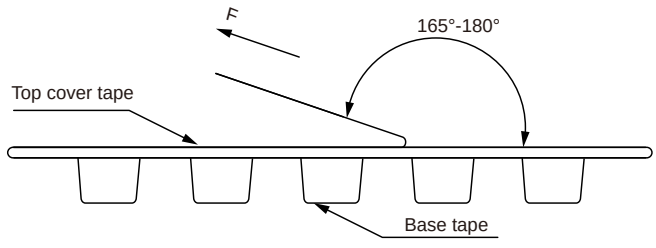
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
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	0.5±0.05

Peel force of top cover tape:

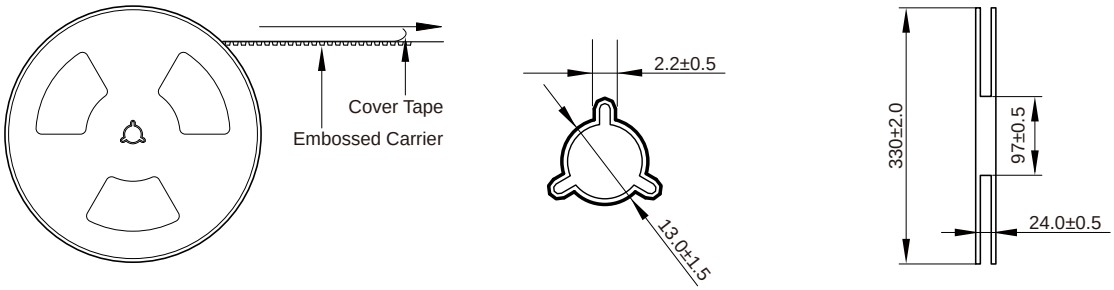


The peel force of top cover tape shall be between 0.1 to 1.3 N

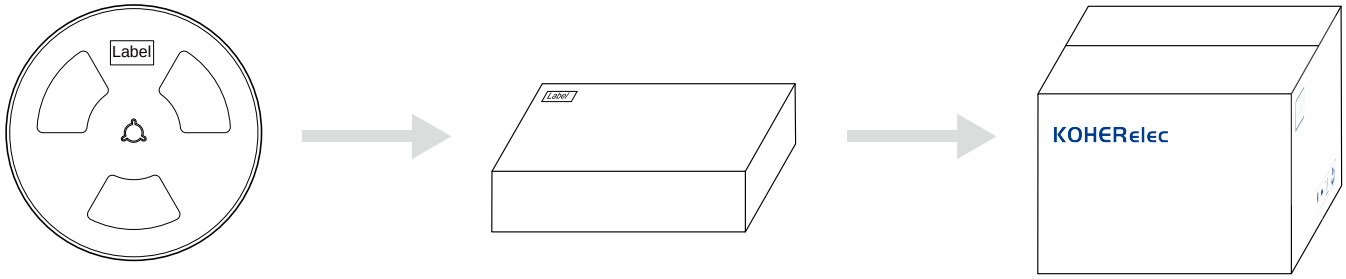
Product Marking:

Marking	Printing (Inductance)

Reel Dimension：[mm]



Packaging Quantity:



300 Pcs/Reel

2 Reel /Inner box(600 Pcs)

2 Inner box/Carton box(1.2K Pcs)

Cautions and Warnings:

Storage Conditions：

- The storage period is within 12 months after the completion of production. Be sure to follow the storage conditions (temperature: -5 to 35°C, humidity: 75% RH Max).If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Product should not be exposed to environment with high temperature, high humidity, dust, corrosive gas and etc.
- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- Please always handle products carefully to prevent any damage caused by dropping down or inappropriate removing.

Operation Instructions:

- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Before soldering, be sure to preheat components.The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Generally, Koher might not be familiar with either customer's specific application or actual requests as customer does.As a result customer shall be responsible for checking and confirming whether Koher product with the performance described in the product specification is suitable for using in customer's particular application or not.