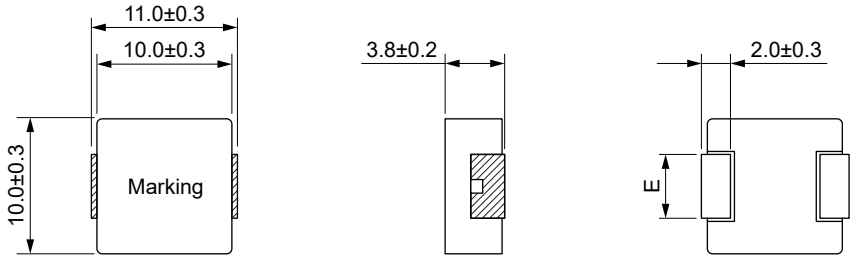
SMD Low Profile High Current Molded Inductor
Size 1040

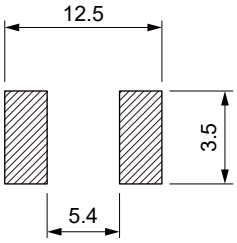


-
- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
-
- 100% Lead(Pb)-Free and RoHS compliant.
-
-
-
-
-
-

Dimensions: [mm]



Land Pattern: [mm]



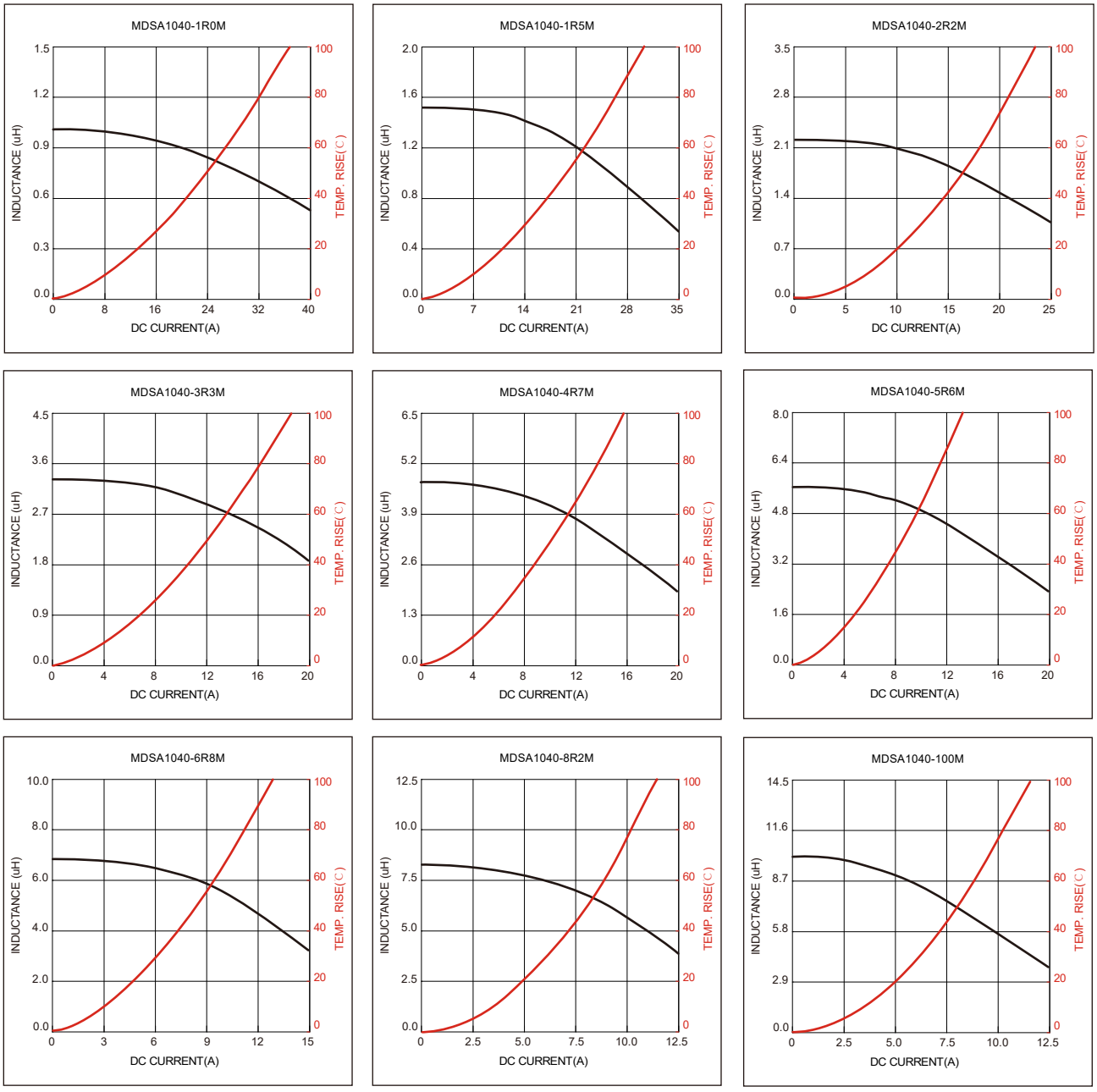
Electrical Properties:

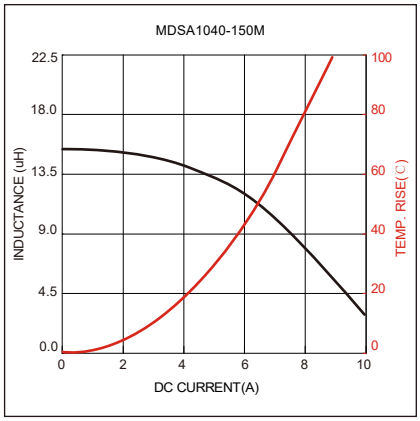
MDSA1040-1R0M	1.00	±20%	19.0	28.0	3.00		
		±20%	16.8		3.80	4.40	
MDSA1040-2R2M	2.20	±20%	14.4	19.2		7.00	3.0±0.3
MDSA1040-3R3M	3.30	±20%		16.8	10.7	12.0	3.0±0.3
MDSA1040-4R7M	4.70	±20%	8.40	14.6	16.0		3.0±0.3
		±20%	7.60		19.2	23.3	3.0±0.3
MDSA1040-6R8M	6.80	±20%	7.40	11.7	22.2		3.0±0.3
MDSA1040-8R2M	8.20	±20%	7.20	9.00		29.0	3.0±0.3
MDSA1040-100M	10.0	±20%	7.20	8.20		31.0	3.0±0.3
		±20%		6.70	42.0	46.0	3.0±0.3

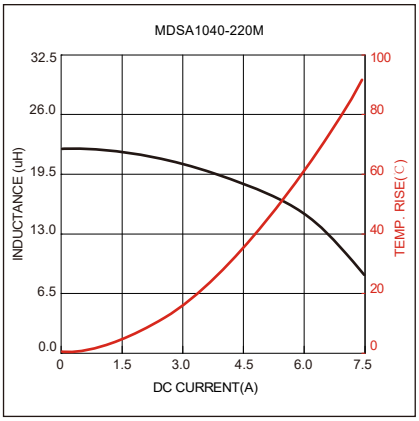
MDSA1040-220M	22.0	±20%	4.70			67.0	3.0±0.3
MDSA1040-330M	33.0	±20%	4.20			92.0	3.0±0.3
MDSA1040-470M	47.0	±20%	3.30	4.70	126	144	3.0±0.3
MDSA1040-680M	68.0	±20%	2.40	3.10	193	212	3.0±0.3

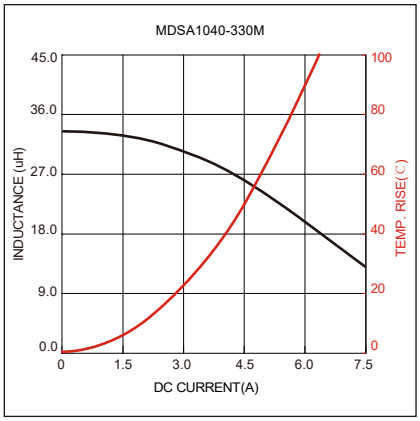
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

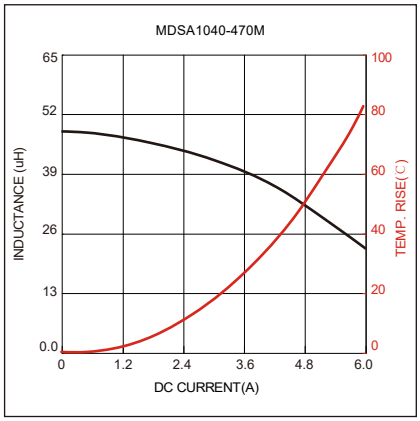
Typical Electrical Characteristics:

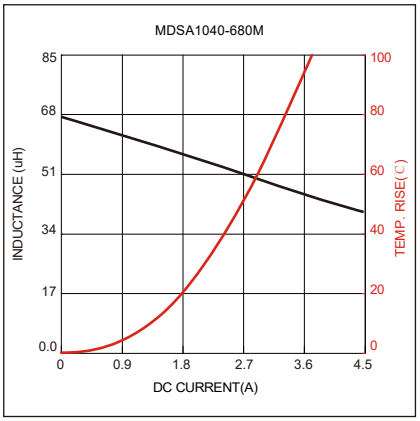



MDSA1040-150M
INDUCTANCE (uH)
22.5
18.0
13.5
9.0
4.5
0.0
TEMP. RISE(℃)
100
80
60
40
20
0
0
2
4
6
8
10
DC CURRENT(A)

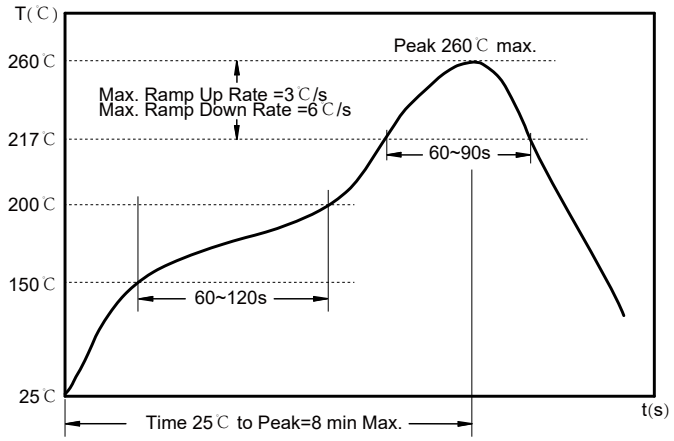

MDSA1040-220M
INDUCTANCE (uH)
32.5
26.0
19.5
13.0
6.5
0.0
TEMP. RISE(℃)
100
80
60
40
20
0
0
1.5
3.0
4.5
6.0
7.5
DC CURRENT(A)


MDSA1040-330M
INDUCTANCE (uH)
45.0
36.0
27.0
18.0
9.0
0.0
TEMP. RISE(℃)
100
80
60
40
20
0
0
1.5
3.0
4.5
6.0
7.5
DC CURRENT(A)


MDSA1040-470M
INDUCTANCE (uH)
65
52
39
26
13
0.0
TEMP. RISE(℃)
100
80
60
40
20
0
0
1.2
2.4
3.6
4.8
6.0
DC CURRENT(A)


MDSA1040-680M
INDUCTANCE (uH)
85
68
51
34
17
0.0
TEMP. RISE(℃)
100
80
60
40
20
0
0
0.9
1.8
2.7
3.6
4.5
DC CURRENT(A)

Soldering Reflow:



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

Allowed time above 217℃: 60~90 sec.

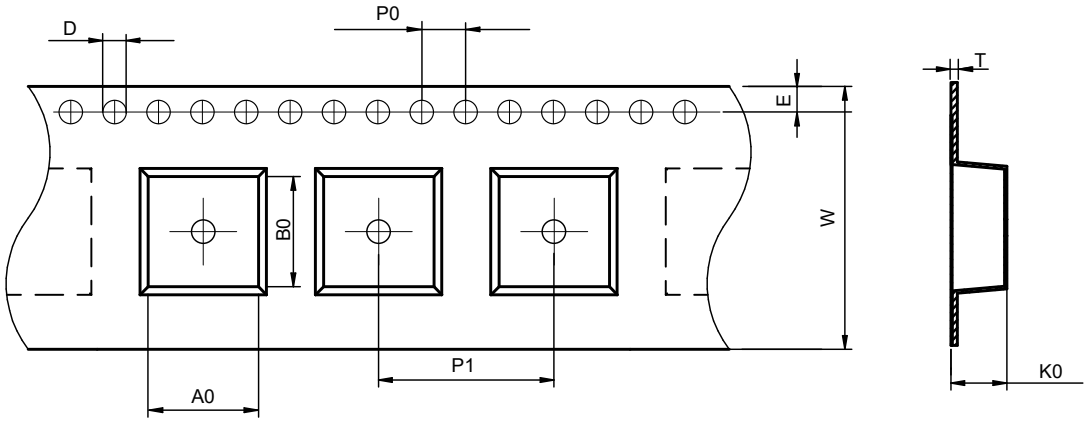
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

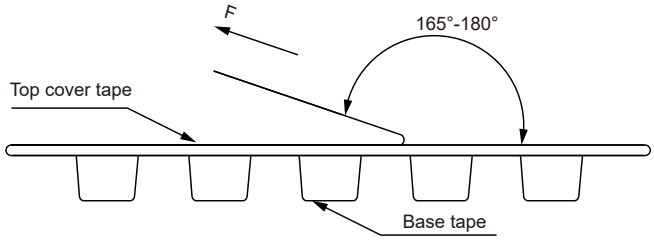
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDSA1040	10.4 ± 0.1	11.6 ± 0.1	1.5 ± 0.1	4.0 ± 0.1	16.0 ± 0.1	24.0 ± 0.3	4.3 ± 0.1	1.75 ± 0.1	0.35 ± 0.05

Peel force of top cover tape:

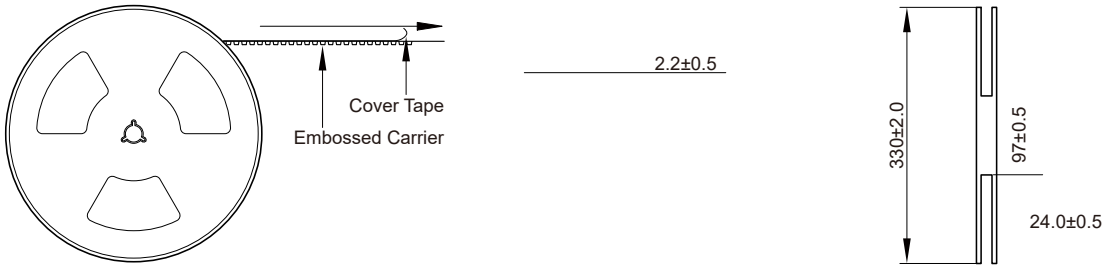


The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking	KH+Printing Inductance)

Reel Dimension：[mm]



Packaging Quantity:



500 Pcs/Reel

2 Reel /Inner box(1000 Pcs)

3 Inner box/Carton box(3K 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.The warranty period is one year.
- Product should not be exposed to environment with high temperature, high humidity, dust, corrosive gas and etc.
-
- etc.

Operation Instructions:

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