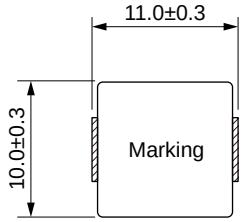
SMD Low Profile High Current Molded Inductor
Size 1040

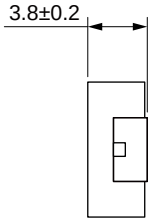


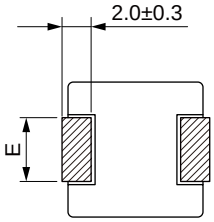
- Shielded construc on
-
-
-
- Ultra low buzz noise, due to composite construc on.
-
- AEC-Q200 qualified
- Opera ng temperature: -55 to +155 °C (including self-temperature rise)
- Quan ty: 500PCS

- Headlamps, tail lamps and interior ligh ng
-
- Doors, window li and seat control
-
-
- In-Vehicle Infotainment and naviga on

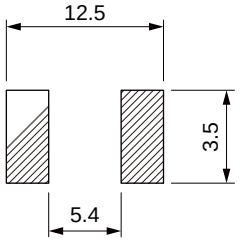
Dimensions: [mm]







Land Pattern: [mm]



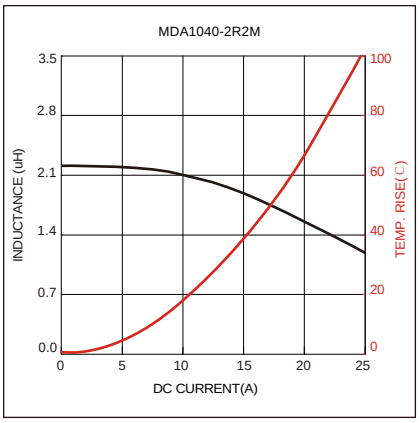
Electrical Properties:

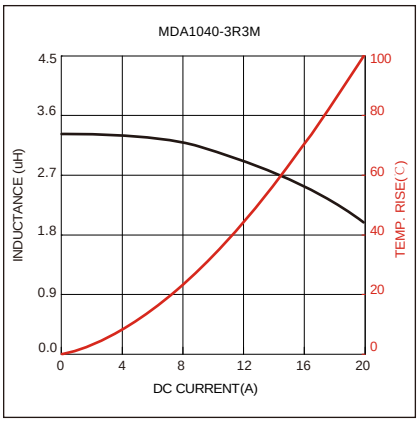
Part No	Inductance @ 100KHz/1V (µH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)	E

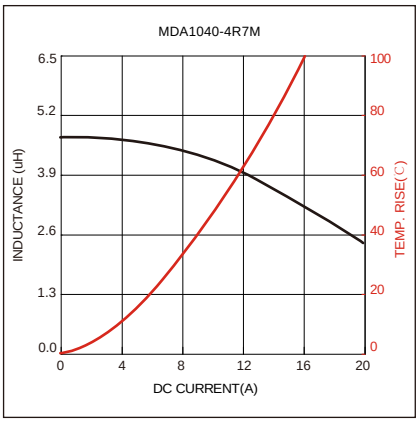
Part No	Inductance @ 100KHz/1V (µH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)	E

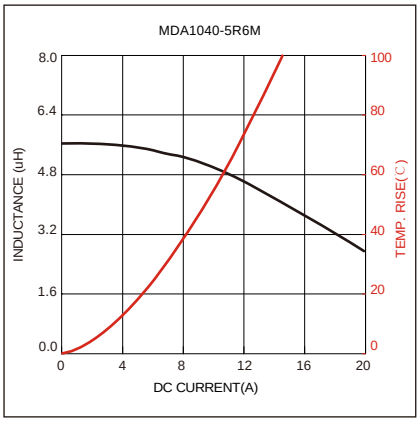
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when

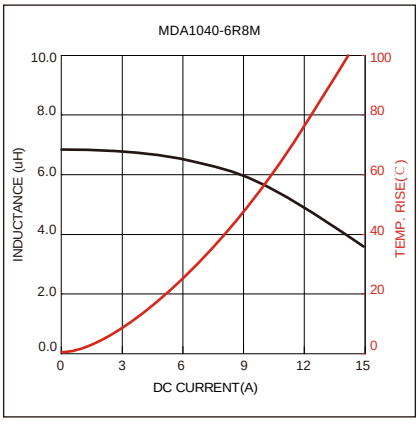
Typical Electrical Characteristics:

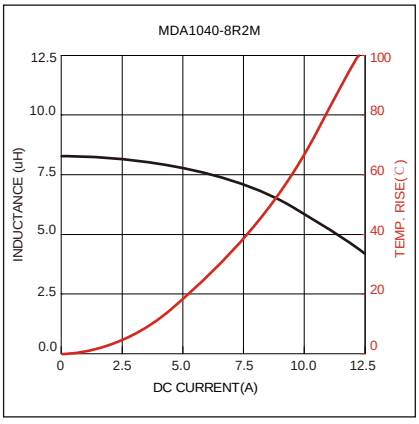

MDA1040-2R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
3.5
2.8
2.1
1.4
0.7
0.0
100
80
60
40
20
0
0
5
10
15
20
25

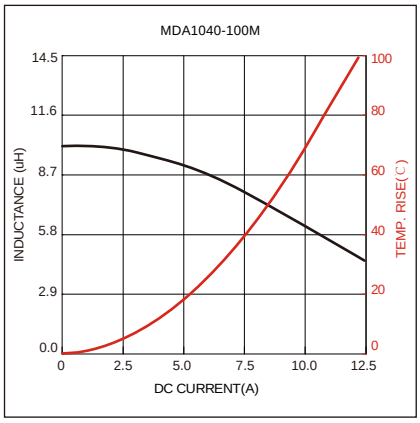

MDA1040-3R3M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
4.5
3.6
2.7
1.8
0.9
0.0
100
80
60
40
20
0
0
4
8
12
16
20

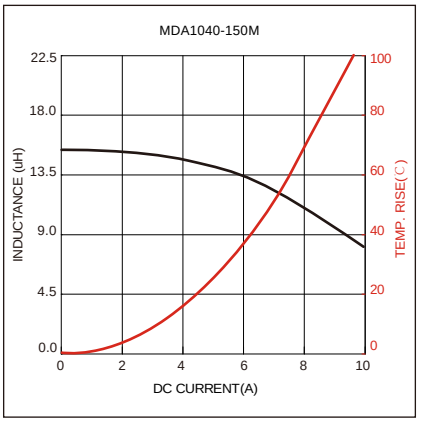

MDA1040-4R7M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
6.5
5.2
3.9
2.6
1.3
0.0
100
80
60
40
20
0
0
4
8
12
16
20

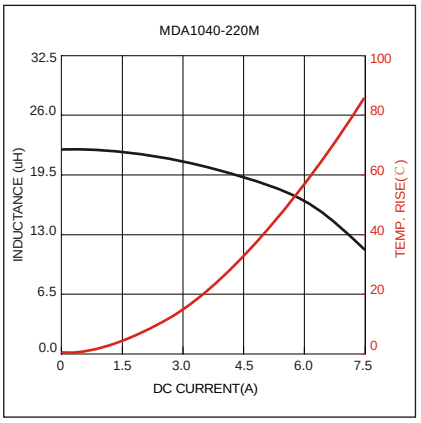

MDA1040-5R6M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
8.0
6.4
4.8
3.2
1.6
0.0
100
80
60
40
20
0
0
4
8
12
16
20

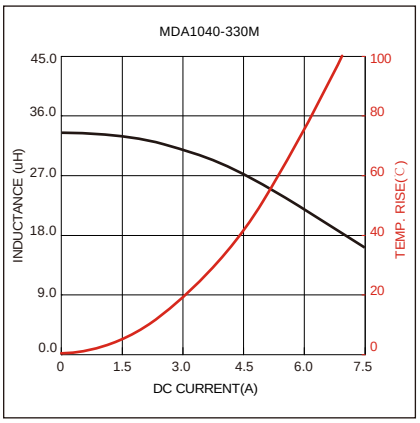

MDA1040-6R8M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
10.0
8.0
6.0
4.0
2.0
0.0
100
80
60
40
20
0
0
3
6
9
12
15

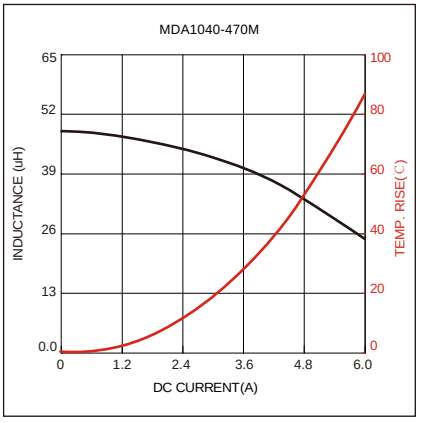

MDA1040-8R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
12.5
10.0
7.5
5.0
2.5
0.0
100
80
60
40
20
0
0
2.5
5.0
7.5
10.0
12.5

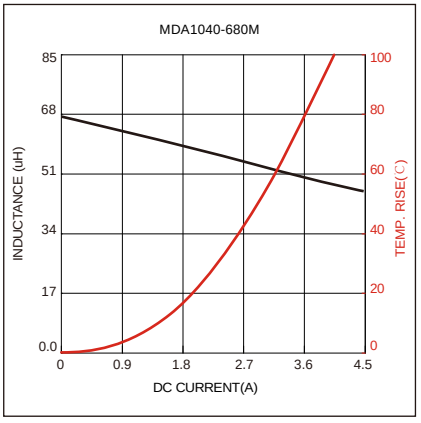

MDA1040-100M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
14.5
11.6
8.7
5.8
2.9
0.0
100
80
60
40
20
0
0
2.5
5.0
7.5
10.0
12.5


MDA1040-150M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
22.5
18.0
13.5
9.0
4.5
0.0
100
80
60
40
20
0
0
2
4
6
8
10

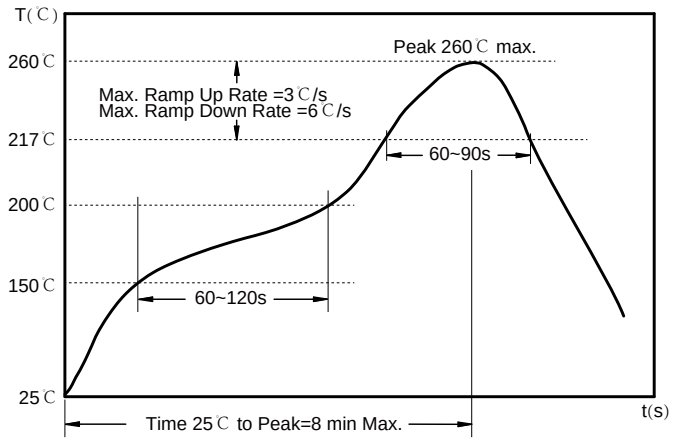

MDA1040-220M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
32.5
26.0
19.5
13.0
6.5
0.0
100
80
60
40
20
0
0
1.5
3.0
4.5
6.0
7.5


MDA1040-330M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
45.0
36.0
27.0
18.0
9.0
0.0
100
80
60
40
20
0
0
1.5
3.0
4.5
6.0
7.5


MDA1040-470M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
65
52
39
26
13
0.0
100
80
60
40
20
0
0
1.2
2.4
3.6
4.8
6.0


MDA1040-680M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
85
68
51
34
17
0.0
100
80
60
40
20
0
0
0.9
1.8
2.7
3.6
4.5

Soldering Reflow:



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

Allowed time above 217℃: 60~90 sec.

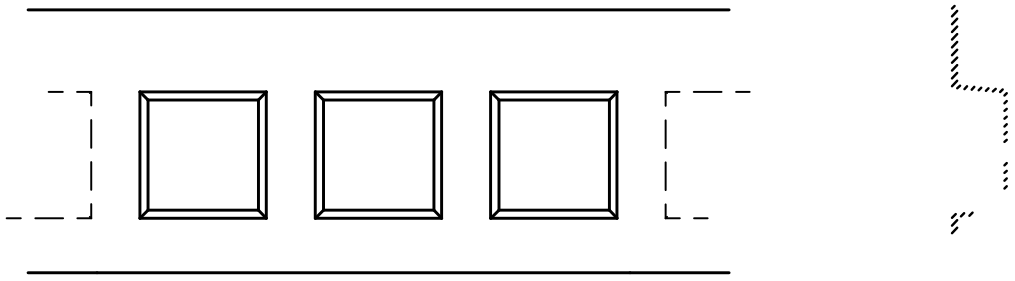
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

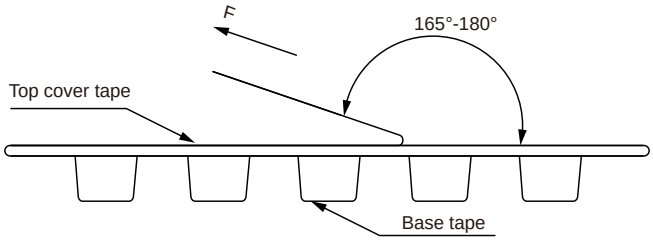
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDA1040	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:

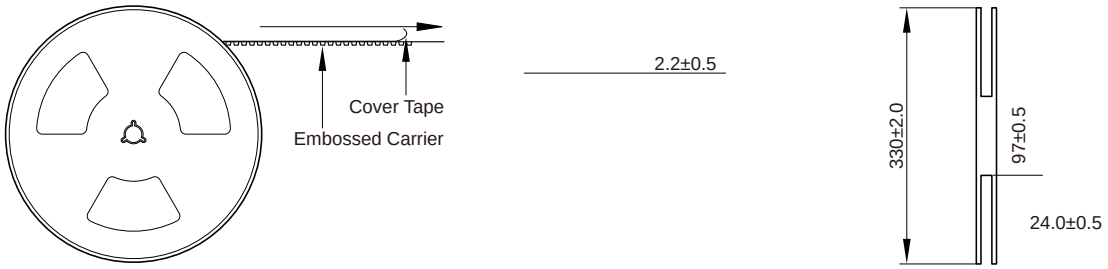


The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking	KH+Printing (Inductance+period)

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：

Operation Instructions: