NRSA Series

SMD Power Inductors For Automotive

Size 6045



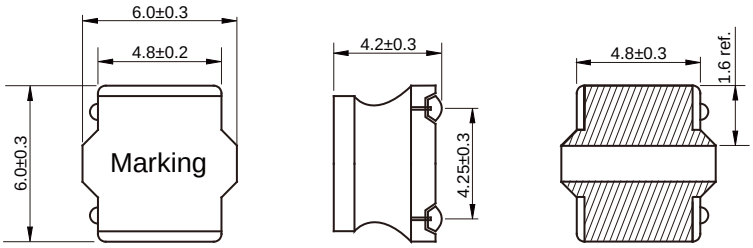
FEATURES

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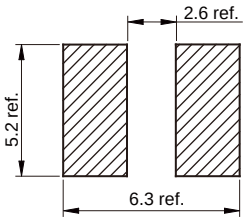
APPLICATION

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Dimensions: [mm]

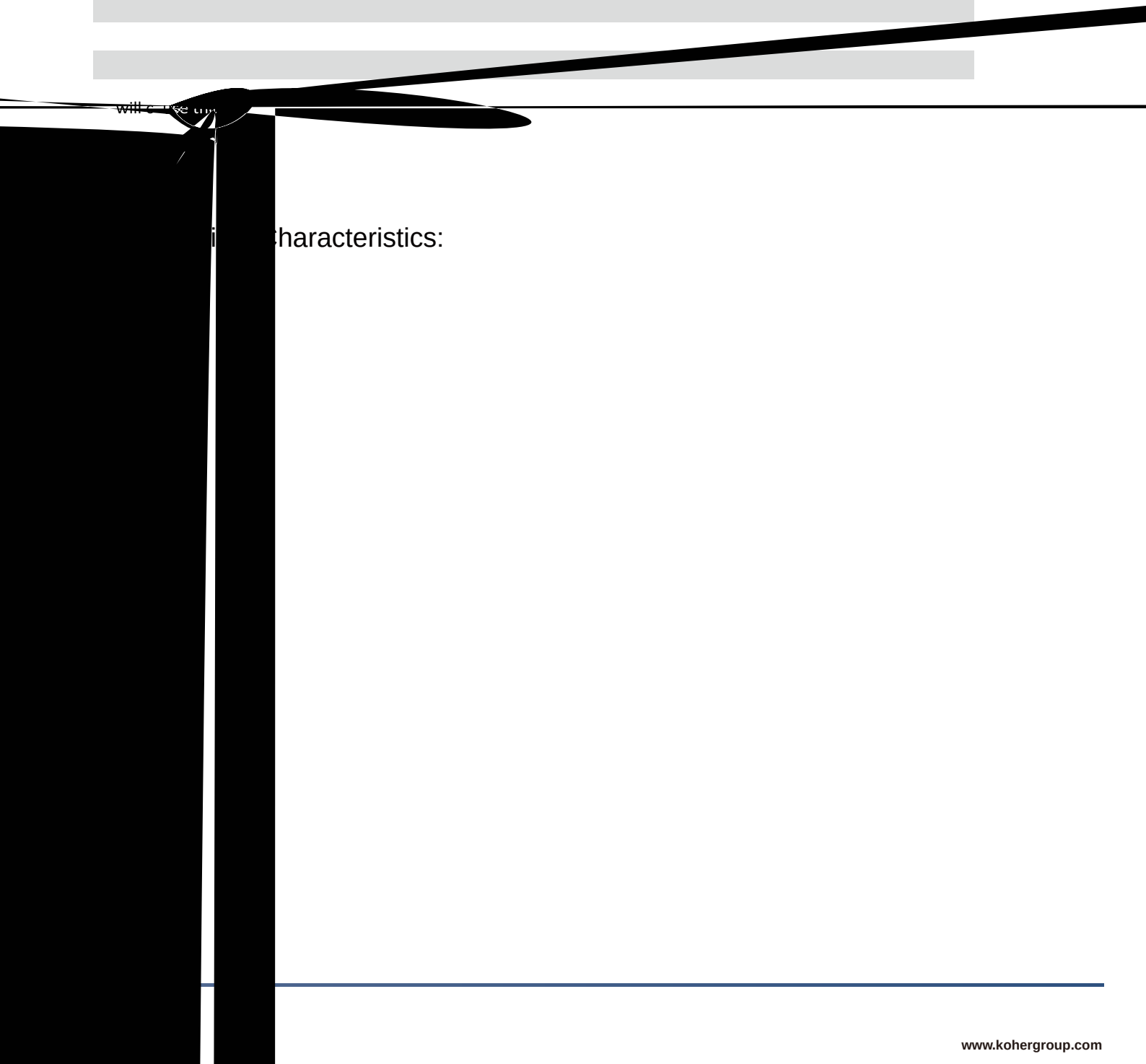


Land Pattern: [mm]

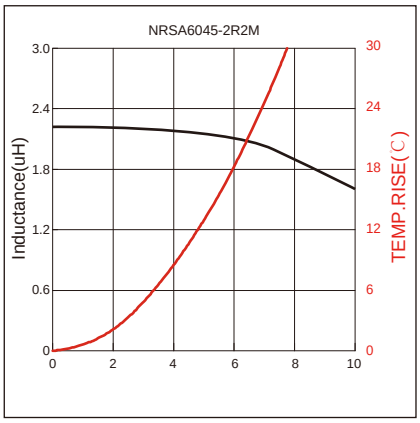


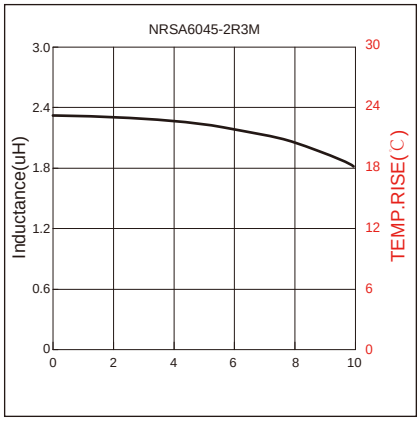
Electrical Properties:

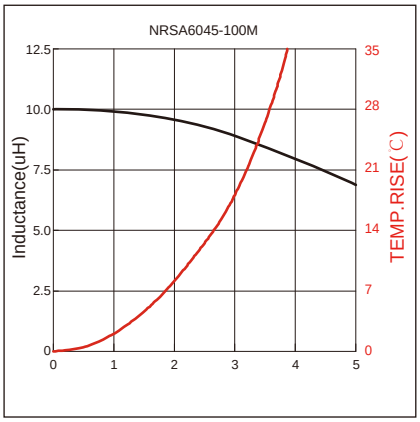
	(μH)		(A)	(A)	(A)	(A)	(mΩ)

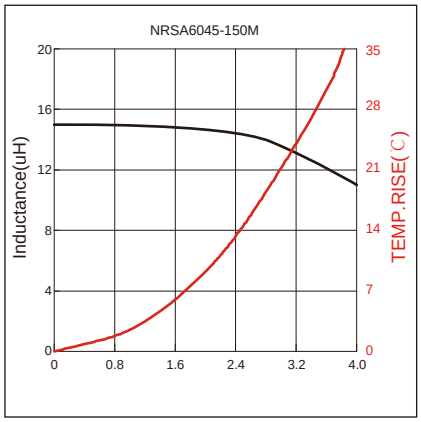


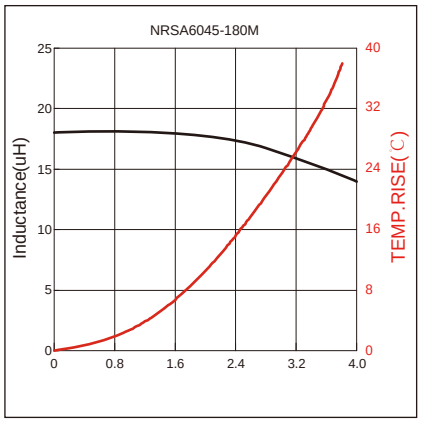
characteristics:

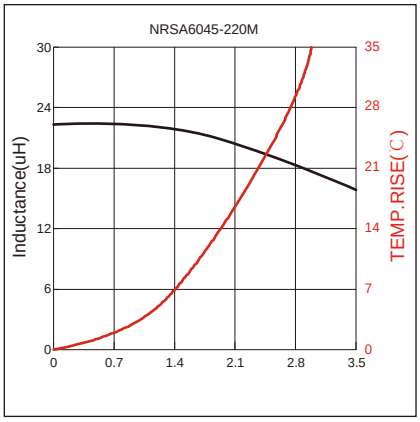

NRSA6045-2R2M
Inductance(uH)
TEMP.RISE(℃)
3.0
2.4
1.8
1.2
0.6
0
30
24
18
12
6
0
0
2
4
6
8
10

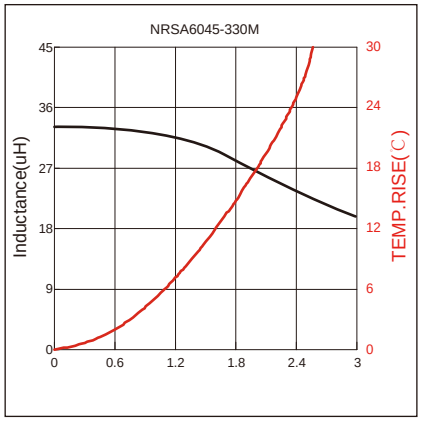

NRSA6045-2R3M
Inductance(uH)
TEMP.RISE(℃)
3.0
2.4
1.8
1.2
0.6
0
30
24
18
12
6
0
0
2
4
6
8
10

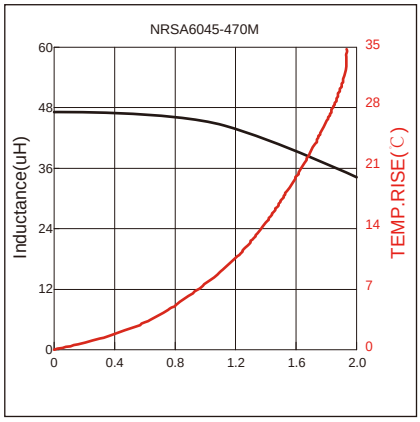

NRSA6045-100M
Inductance(uH)
TEMP.RISE(℃)
12.5
10.0
7.5
5.0
2.5
0
35
28
21
14
7
0
0
1
2
3
4
5

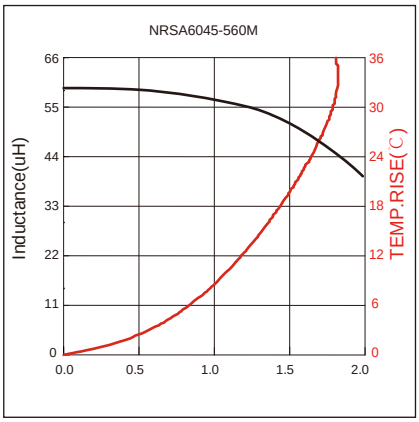

NRSA6045-150M
Inductance(uH)
TEMP.RISE(℃)
20
16
12
8
4
0
35
28
21
14
7
0
0
0.8
1.6
2.4
3.2
4.0

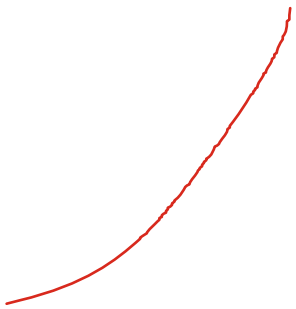

NRSA6045-180M
Inductance(uH)
TEMP.RISE(℃)
25
20
15
10
5
0
40
32
24
16
8
0
0
0.8
1.6
2.4
3.2
4.0

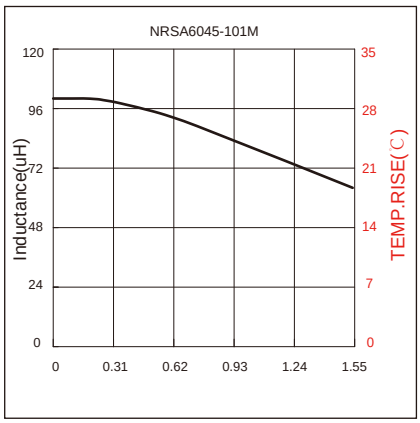

NRSA6045-220M
Inductance(uH)
TEMP.RISE(℃)
30
24
18
12
6
0
35
28
21
14
7
0
0
0.7
1.4
2.1
2.8
3.5

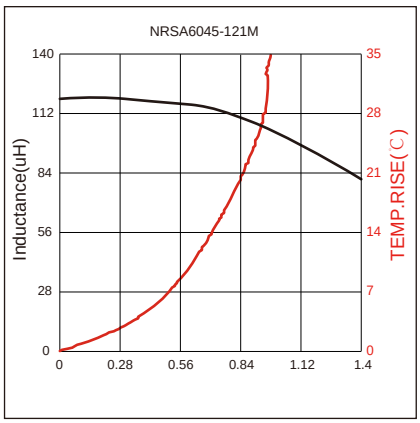

NRSA6045-330M
Inductance(uH)
TEMP.RISE(℃)
45
36
27
18
9
0
30
24
18
12
6
0
0
0.6
1.2
1.8
2.4
3

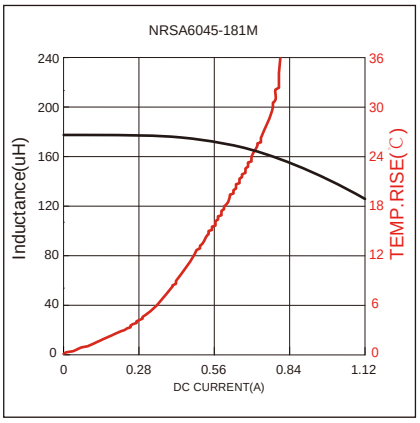

NRSA6045-470M
Inductance(uH)
TEMP.RISE(℃)
60
48
36
24
12
0
35
28
21
14
7
0
0
0.4
0.8
1.2
1.6
2.0

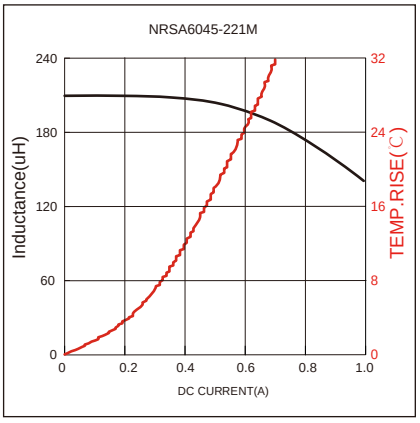

NRSA6045-560M
Inductance(uH)
TEMP.RISE(℃)
66
55
44
33
22
11
0
36
30
24
18
12
6
0
0.0
0.5
1.0
1.5
2.0




NRSA6045-101M
Inductance(uH)
TEMP.RISE(℃)
120
96
72
48
24
0
35
28
21
14
7
0
0
0.31
0.62
0.93
1.24
1.55


NRSA6045-121M
Inductance(uH)
TEMP.RISE(℃)
140
112
84
56
28
0
35
28
21
14
7
0
0
0.28
0.56
0.84
1.12
1.4


NRSA6045-181M
Inductance(uH)
TEMP.RISE(℃)
DC CURRENT(A)
240
200
160
120
80
40
0
36
30
24
18
12
6
0
0
0.28
0.56
0.84
1.12


NRSA6045-221M
Inductance(uH)
TEMP.RISE(℃)
DC CURRENT(A)
240
180
120
60
0
32
24
16
8
0
0
0.2
0.4
0.6
0.8
1.0

Soldering Reflow:

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

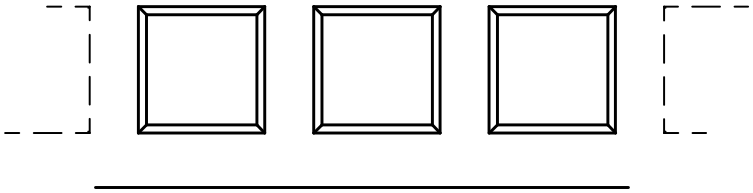
Allowed time above 217℃: 60~90 sec.

Max temperature: 260℃.

Allowed Reflow time: 2x max.

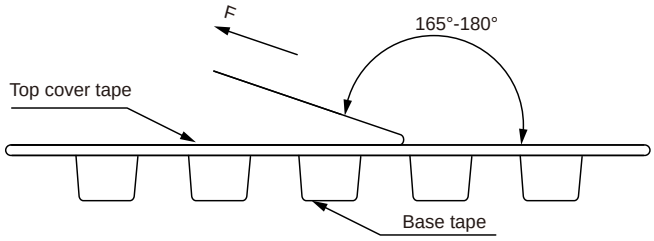
Packaging Information:

Tape Dimension:



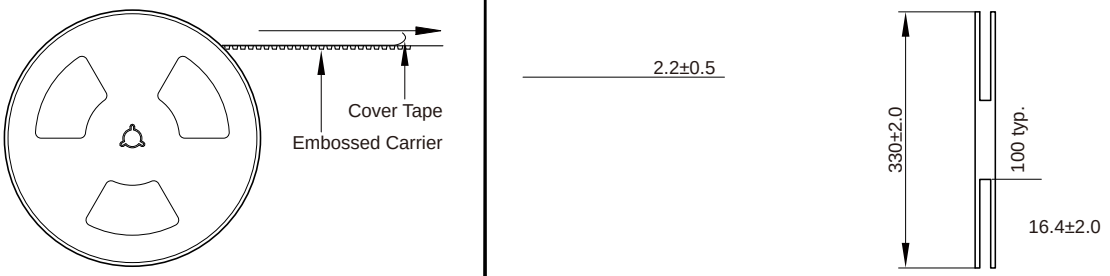
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
NRSA6045	6.4±0.1	6.4±0.1	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	4.7±0.1	1.75±0.1	0.40±0.05

Peel force of top cover tape:

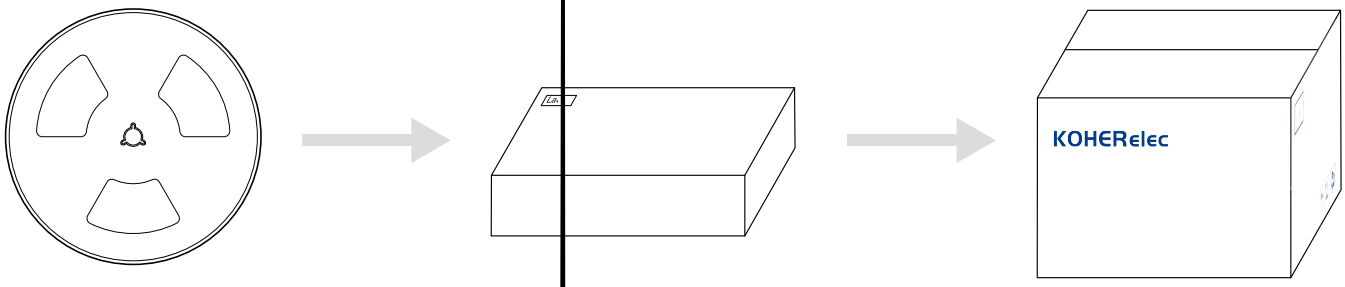


The peel force of top cover tape shall be between 0.3 to 1.17 N

Reel Dimension：[mm]



Packaging Quantity:



1000 Pcs/Reel

2 Reel /Inner box(2K Pcs)

3 Inner box/Carton box(6K 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.
- 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.