NRSA Series

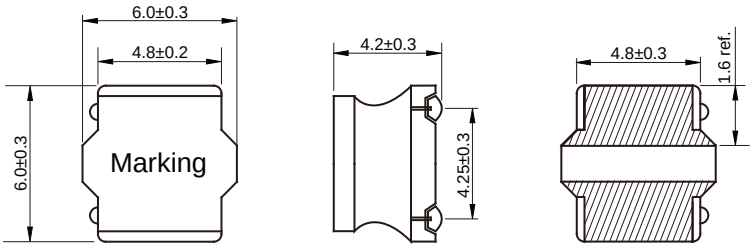
SMD Power Inductors For Automotive

Size 6045

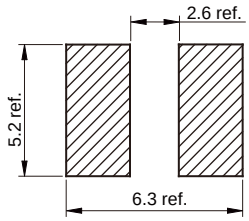
FEATURES

- a l·∃yŜəŎ ăKʌŜfŘ úèLJŜ ǿ2dzyŘ ʌyŘdzŎűƨNJ ŦƨNJ LJƨǿŜNJ ŎΛNJŎdzʌűă dzăʌy∃ l· ŦŜNJNJΛűŜ Y´l·∃yŜəŎ Y´l·ûŜNJΛl·f
- l ʌ∃K Y´l·∃yŜəŎ ăKʌŜfŘ Ŏ2yãűNJdzŎəƨy´ l·yŘ Ŏ2Y´LJl·əōtŜ ǿʌűK Kʌ∃KπŘŜyãʌúè Y´2dzyəy∃φ
- [l·NJ∃ŜNJ ŎdzNJNJŜyűˇ l·yŘ f2ǿŜNJ wŘŎ ǿŜNJŜ l·ŎKʌŜØŜŘ ōè ƨLJəY´ʌÎʌy∃ úKŜ ŦŜNJNJΛűŜ Ŏ2NJS U∃dzNJ **Tolerance** **(A)** c **(A)** Ŝ Ŏ2NJŜ **(A)** dzNJ **(A)**
-
-
- vdzl·yəúèY млллLJŎă
-

Dimensions: [mm]



Land Pattern: [mm]

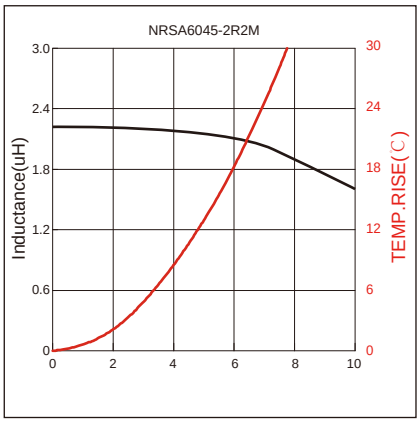


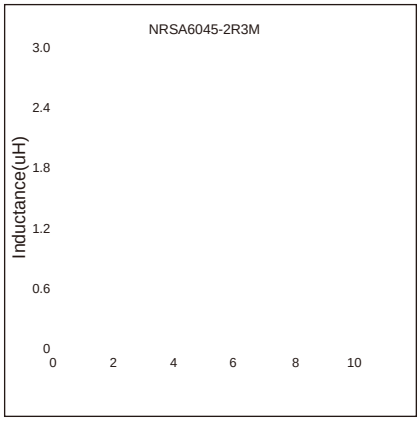
Electrical Properties:

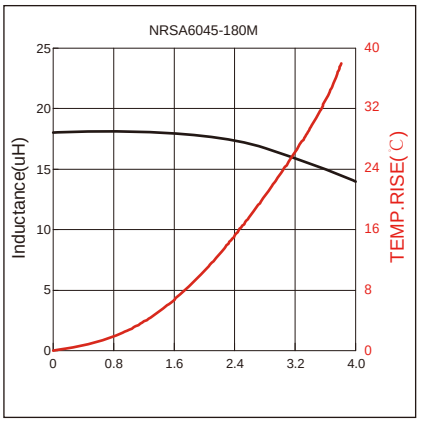
Part No			I_{SAT} Typ.	I_{SAT} Max.	I_R Typ.	I_R Max.	R_{DC} ±20%

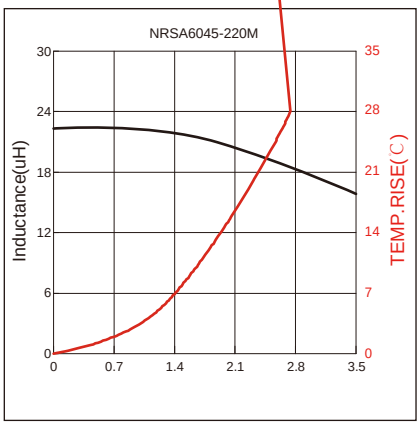
I_w will

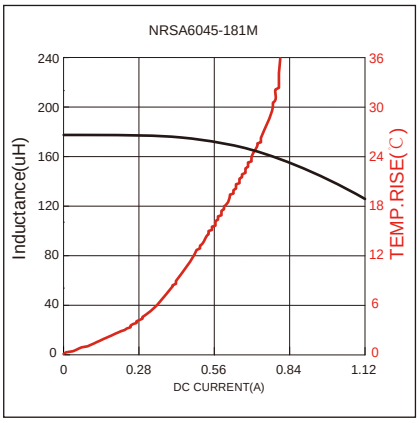
Typical Electrical Characteristics:

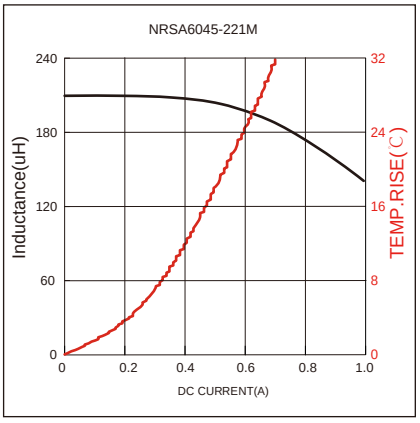

NRSA6045-2R2M
Inductance(uH)
TEMP.RISE(℃)
3.0
2.4
1.8
1.2
0.6
0
30
24
18
12
6
0
0
2
4
6
8
10


NRSA6045-2R3M
Inductance(uH)
3.0
2.4
1.8
1.2
0.6
0
0
2
4
6
8
10


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


NRSA6045-181M
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

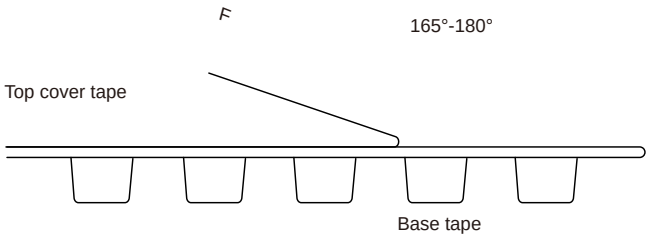
Soldering Reflow:

Packaging Information:

Tape Dimension:

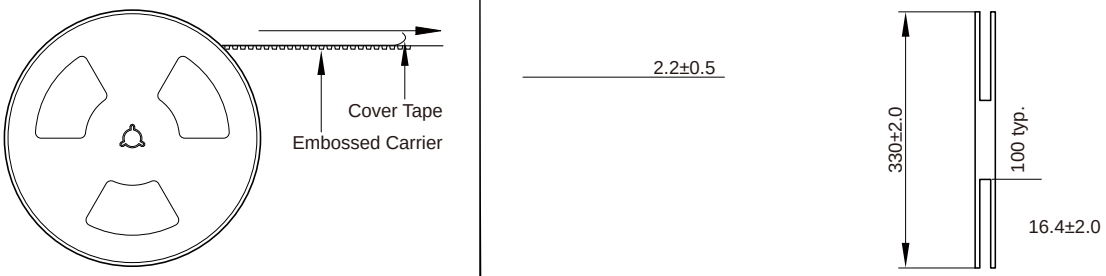
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
NRSA6045	6.4±0.1	6.4±0.1	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	4.7±0.1	1.75±0.1	0.40±0.05

Peel force of top cover tape:

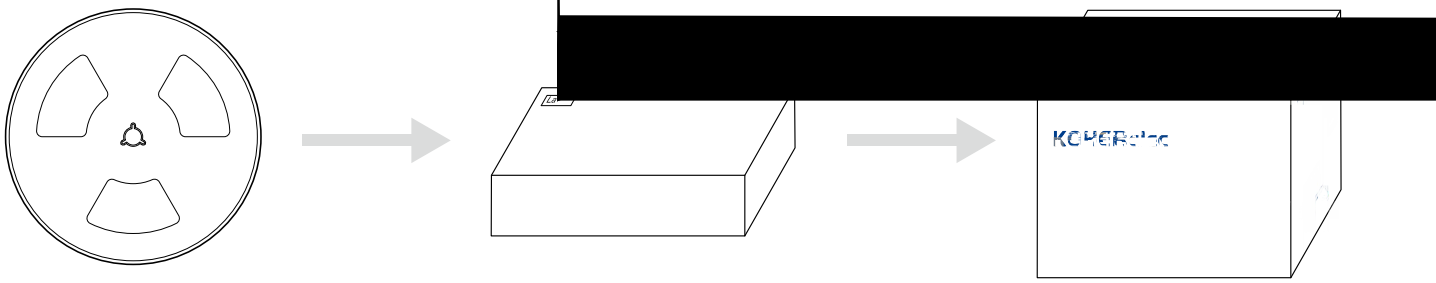


The peel force of top cover tape shall be between 0.3 to 1.17 N

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.