SMD Power Inductors For Automotive
Size 4014B



- Magne c shield type wound inductor for power circuits using a ferrite magne c material
- High magne c shield construc on and compa ble with high-density moun ng.
- Larger ŏ M
  ʊ =] i ù 1 B ŕ Ţ D Resis ±2 (m
- ±30% 2.20 4
- Quan ty: 4500pcs
- ±20% 1.90 7
- ±20% 1.70 1
- ±20% 1.50 1

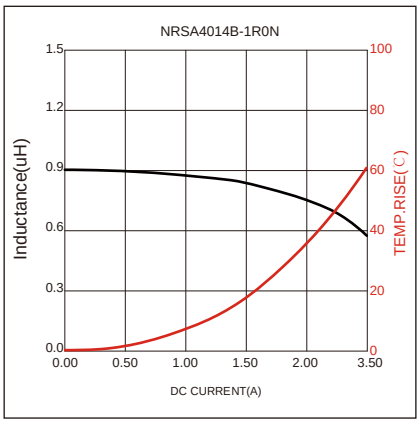
Dimensions: [mm]

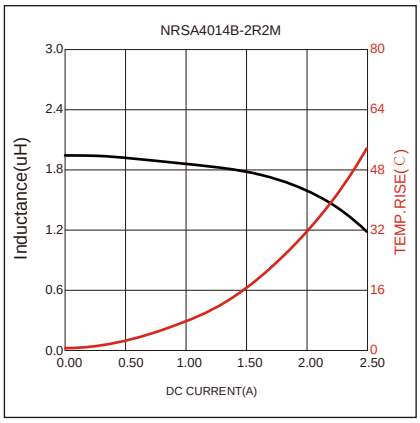
Land Pattern: [mm]

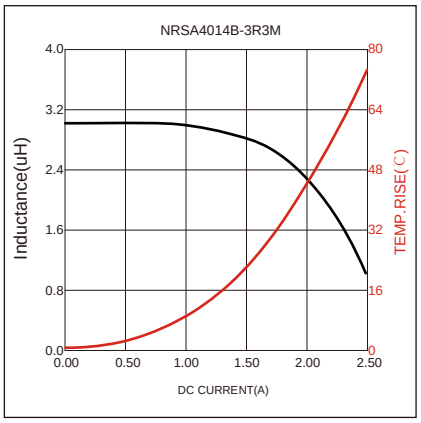
Part No	Inductance @100KHz/1V (μH)		Temperature Rise Current Typ. (A)	Satura on Current Typ. (A)	
NRSA4014B-1R0N	1.0			2.80	
NRSA4014B-2R2M	2.2			1.65	
NRSA4014B-3R3M	3.3			1.40	
NRSA4014B-4R7M	4.7			1.20	

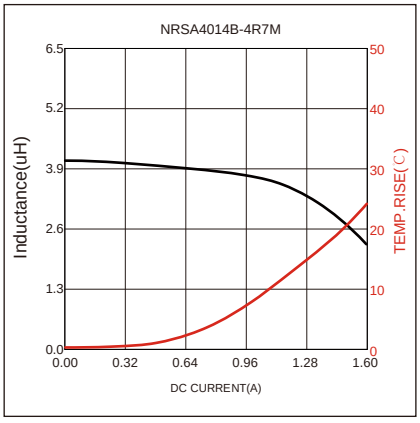
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

Typical Electrical Characteristics:

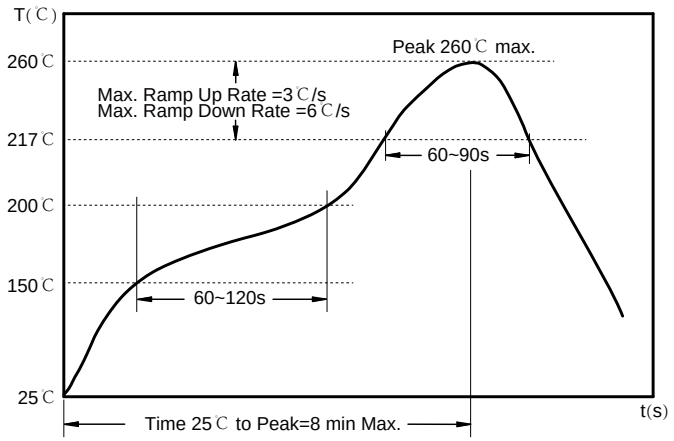








Soldering Reflow:



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

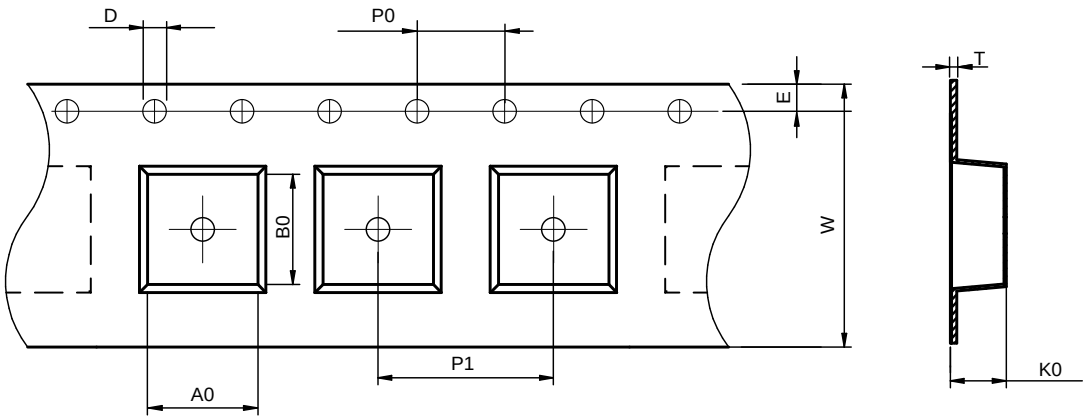
Allowed time above 217℃: 60~90 sec.

Max temperature: 260℃.

Allowed Reflow time: 2x max.

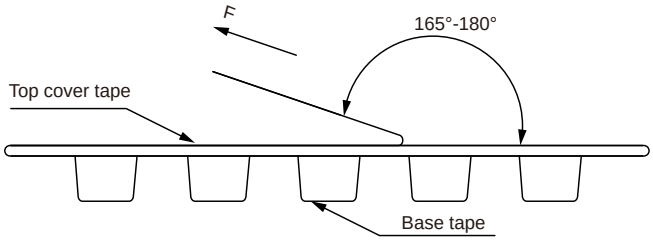
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
NRSA4014B	4.25±0.1	4.25±0.1	1.5±0.1	4.0±0.1	8.0±0.1	12.0±0.3	1.4±0.1	1.75±0.1	0.30±0.05

Peel force of top cover tape:

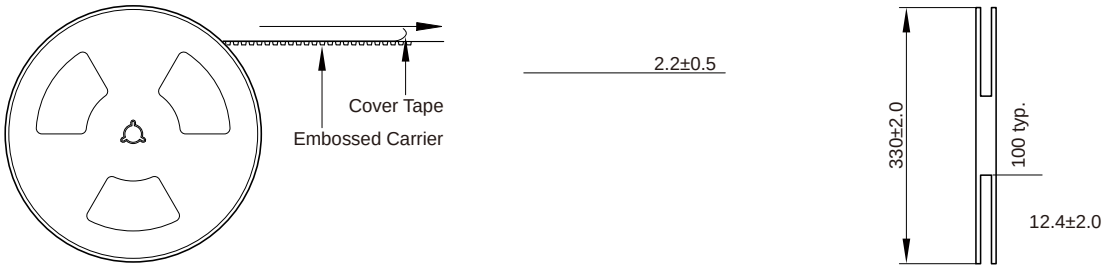


The peel force of top cover tape shall be between 0.3 to 1.17 N

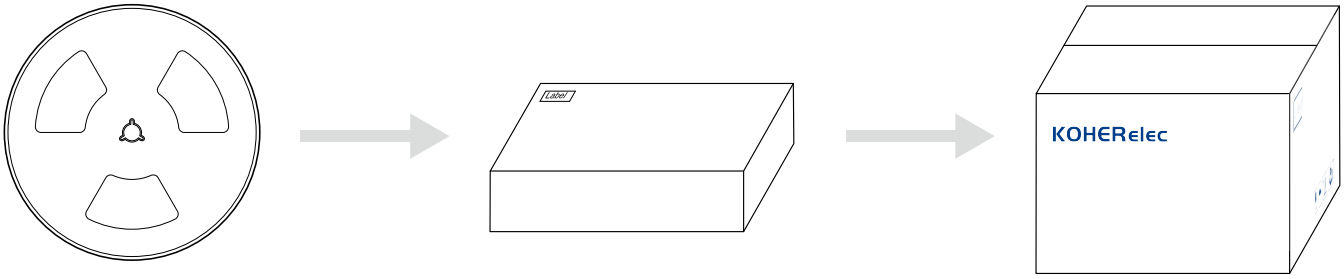
Product Marking:

Marking	Printing (Inductance)

Reel Dimension：[mm]



Packaging Quantity:



4500 Pcs/Reel

3 Reel /Inner box(13.5K Pcs)

3 Inner box/Carton box(40.5K 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.