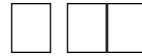
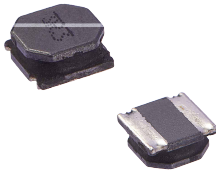

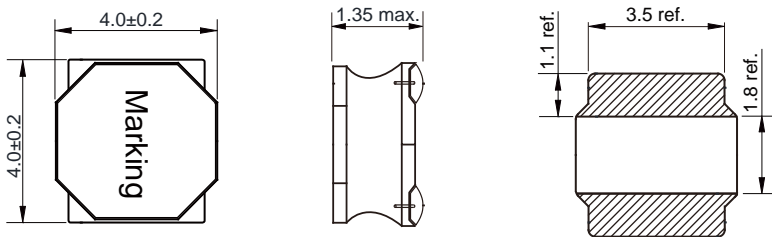


SMD Power Inductors For Automotive Size 4014B

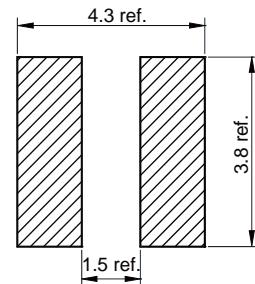


- Magnetic shield type wound inductor for power circuits using a ferrite magnetic material
 - High magnetic shield construction and compatible with high-density mounting
 - Larger current and lower Rdc were achieved by optimizing the ferrite core figure.
 - Operating temperature: -55 to +125°C (including self-temperature rise)
 - AEC-Q200 qualified
 - Quantity: 4500pcs
- 
- Car navigation, car stereo and car accessories only

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

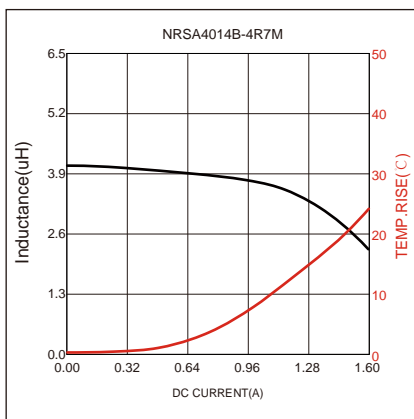
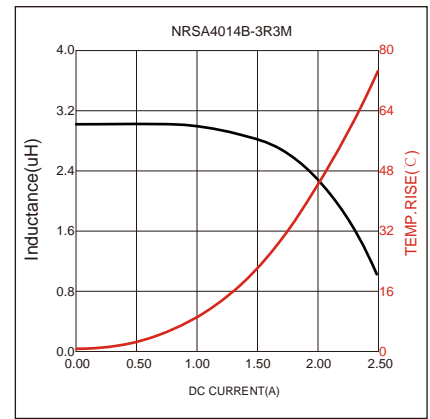
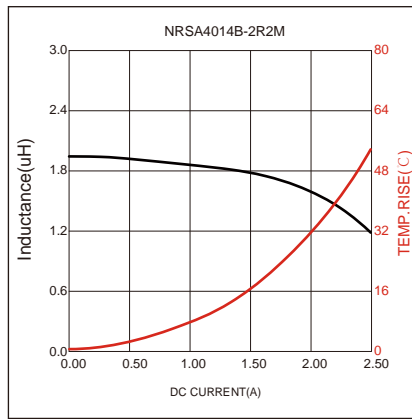
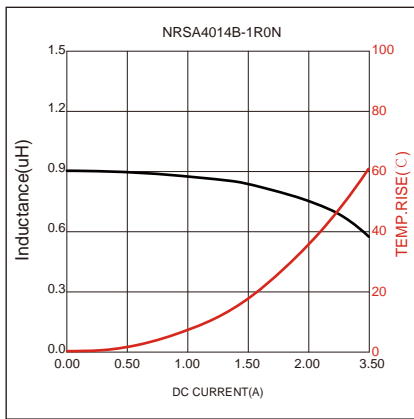
Part No	Inductance @100KHz/1V (μ H)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance \pm 20% (m Ω)
NRSA4014B-1R0N	1.0	\pm 30%	2.20	2.80	45
NRSA4014B-2R2M	2.2	\pm 20%	1.90	1.65	75
NRSA4014B-3R3M	3.3	\pm 20%	1.70	1.40	108
NRSA4014B-4R7M	4.7	\pm 20%	1.50	1.20	108

Saturation Current will cause L to drop approximately 30%

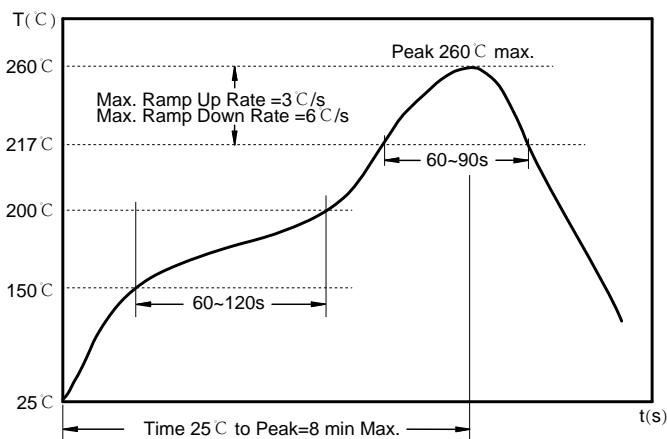
Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$



Typical Electrical Characteristics:



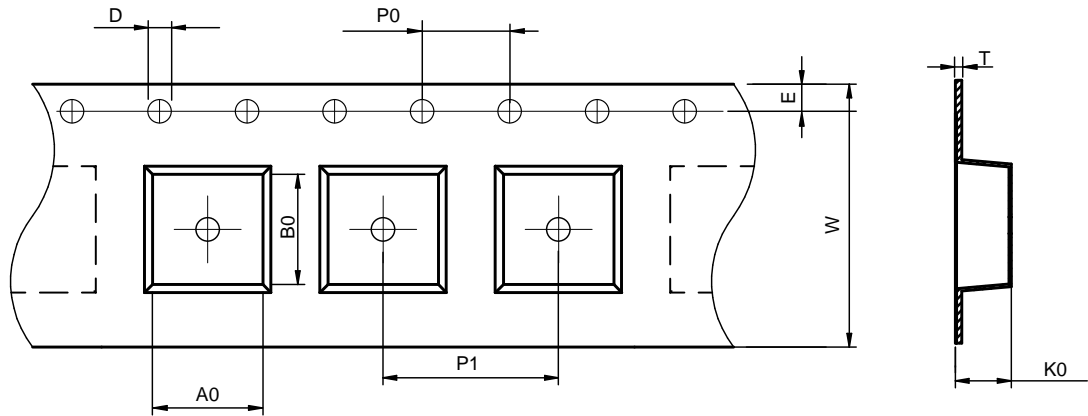
Soldering Reflow:



Preheat condition: 150 ~200°C / 60~120 sec.
 Allowed time above 217°C : 60~90 sec.
 Max temperature: 260°C .
 Allowed Reflow time: 2x max.

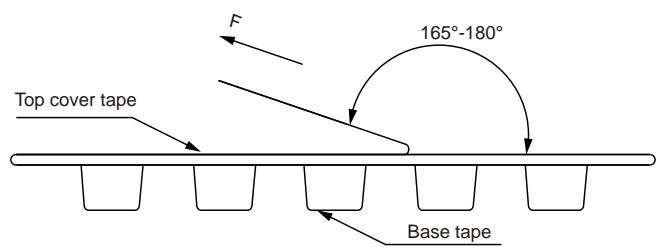
Packaging Information:

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:



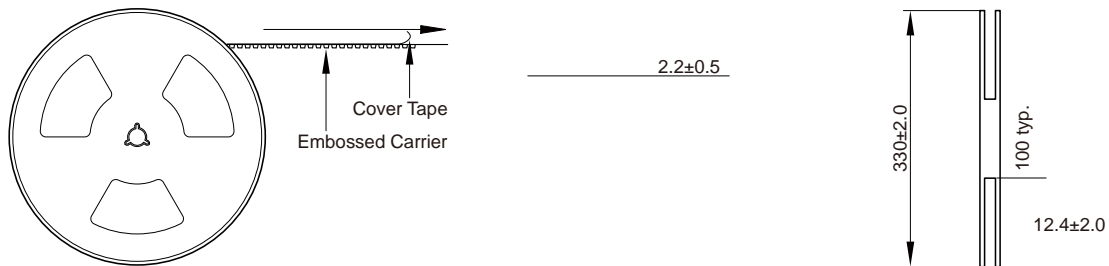
The peel force of top cover tape shall be between 0.3 to 1.17 N

Product Marking:

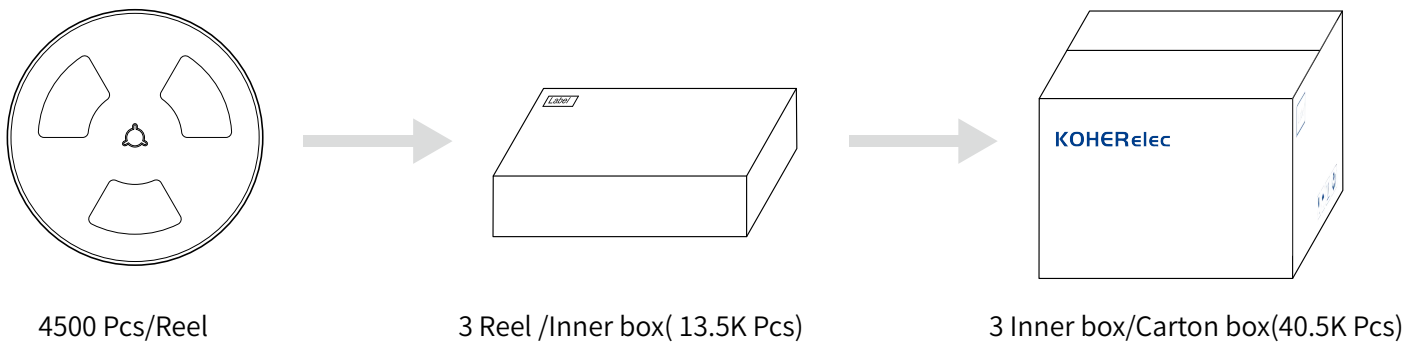
Marking	Printing (Inductance)
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Reel Dimension: [mm]



Packaging Quantity:



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.