

# NRSA Series

## SMD Power Inductors For Automotive

### Size 2520B

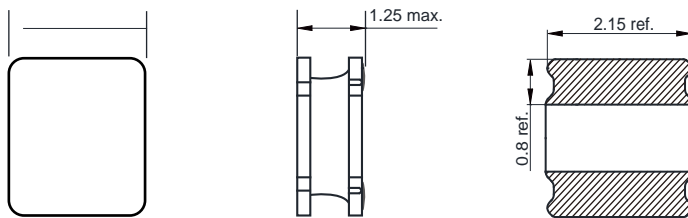
#### FEATURES

- 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: 2000pcs

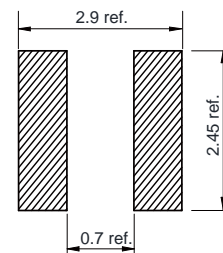
#### APPLICATION

- Car navigation, car stereo and car accessories only

#### Dimensions: [mm]



#### Land Pattern: [mm]



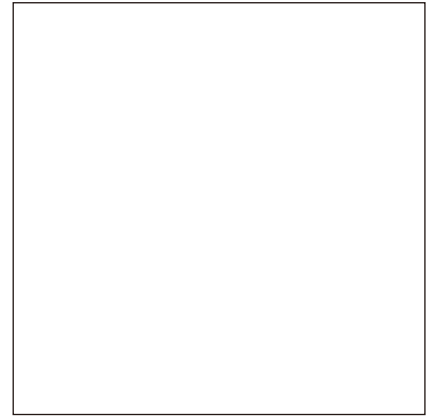
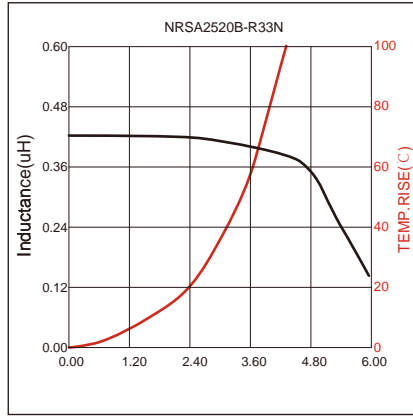
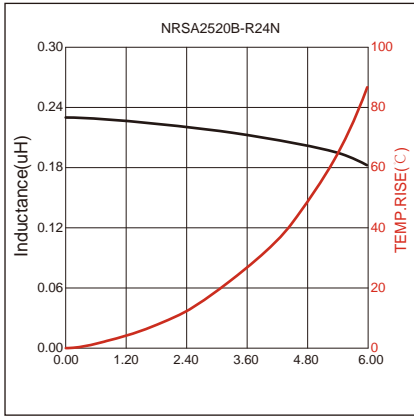
#### Electrical Properties:

		±30%	3.50	4.05 28
		±30%	3.00	4.00 40
		±30%	2.90	3.60 40
		±30%	2.80	3.30 40
		±30%	2.60	3.28 45
		±20%	2.40	2.45 60
		±20%	1.90	2.05 84
		±20%	1.80	1.90 110
		±20%	1.40	1.50 155
		±20%	1.20	1.35 228
		±20%	0.90	1.00 325
		±20%	0.75	0.79 480
		±20%	0.55	0.65 625
		±20%	0.50	0.55 1000
		±20%	0.45	0.50 1020
		±20%	0.37	0.38 1400
		±20%	0.29	0.30 2000

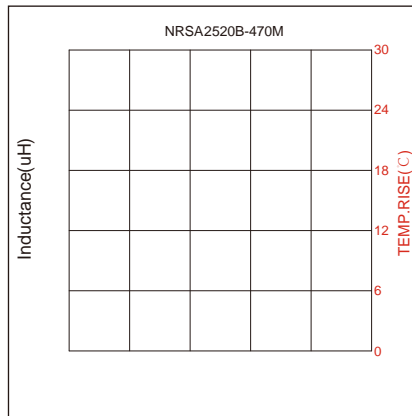
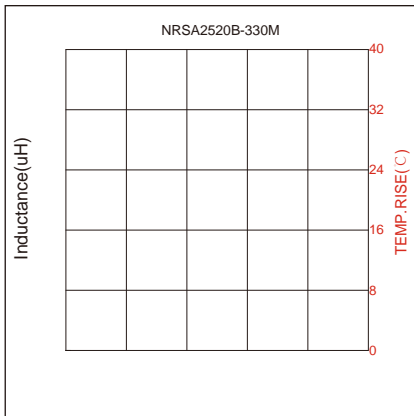
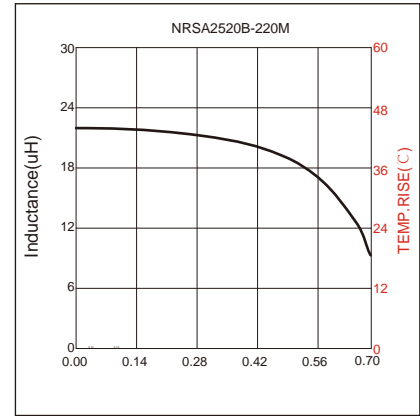
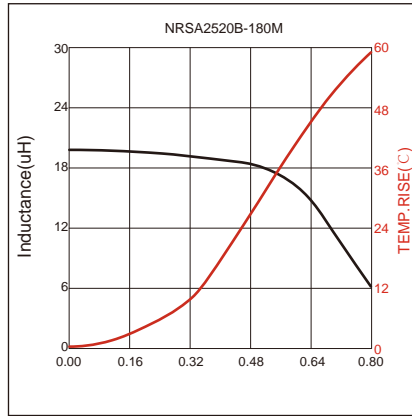
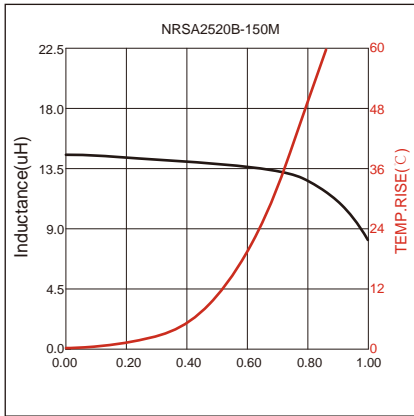
Saturation Current will cause L to drop approximately 30%

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

# Typical Electrical Characteristics:



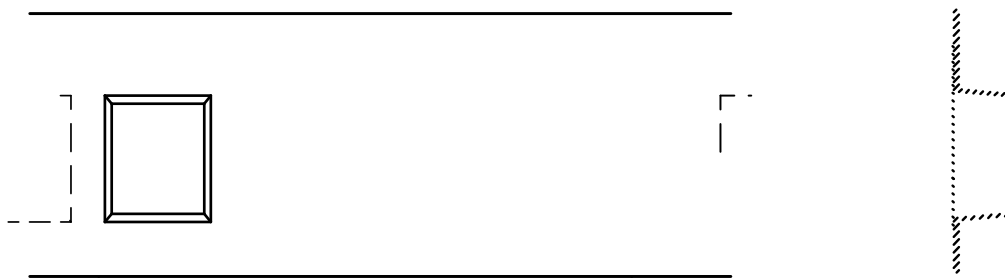
2.0  
1.6  
1.2  
0.8  
0.4  
0.0



## Soldering Reflow:

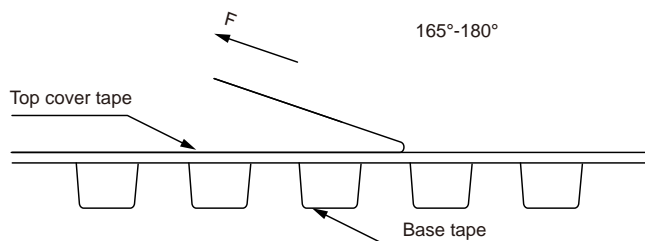
## Packaging Information:

### Tape Dimension:



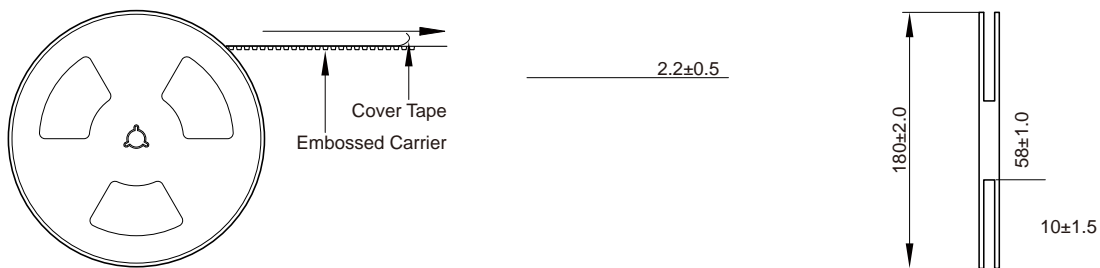
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
NRSA2520B	2.4±0.1	3.0±0.1	1.5±0.1	4.0±0.1	4.0±0.1	8.0±0.1	1.4±0.1	1.75±0.1	0.20±0.05

### Peel force of top cover tape:

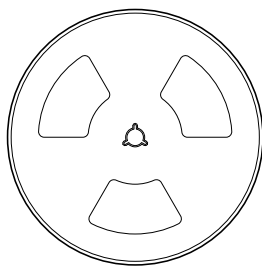


The peel force of top cover tape shall be between 0.2 to 0.58 N

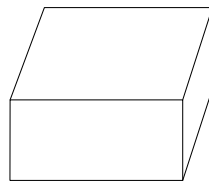
## Reel Dimension: [mm]



## Packaging Quantity:



2000 Pcs/Reel



5 Reel /Inner box( 10K Pcs)



8 Inner box/Carton box(80K 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.