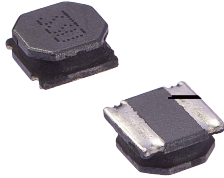


NRSA Series

SMD Power Inductors For Automotive

Size 6020



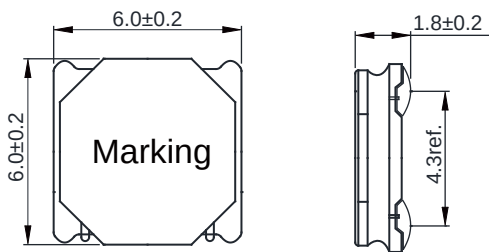
FEATURES

- 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

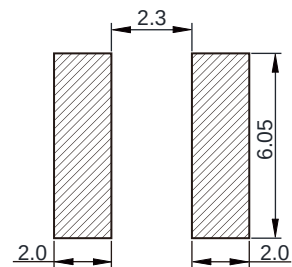
APPLICATION

- Car navigation, car stereo and car accessories only

Dimensions: [mm]



Land Pattern: [mm]



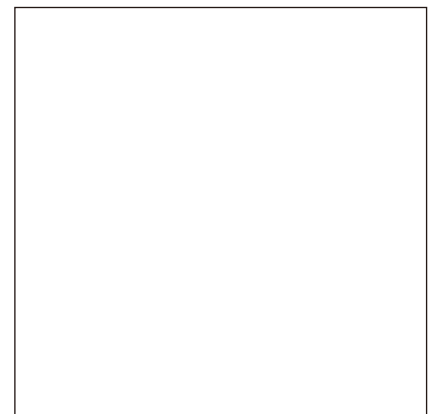
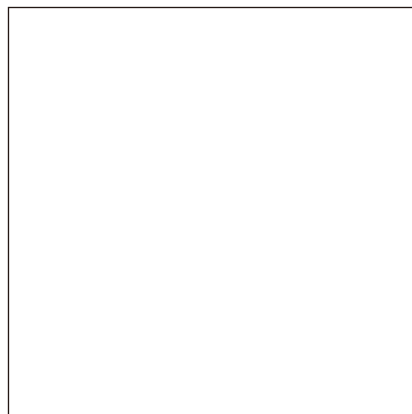
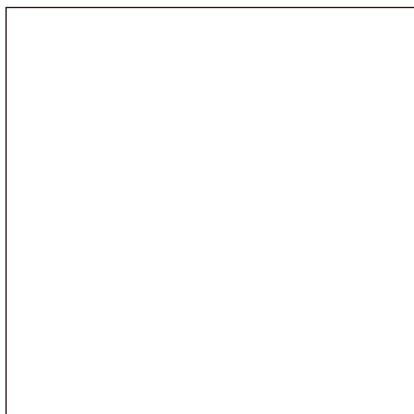
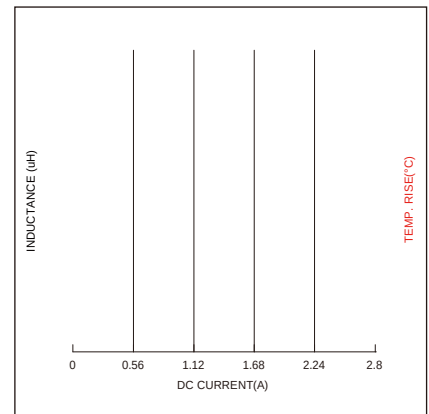
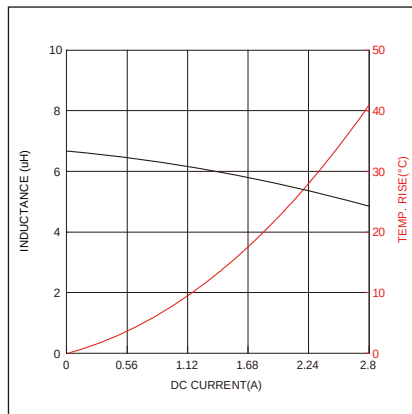
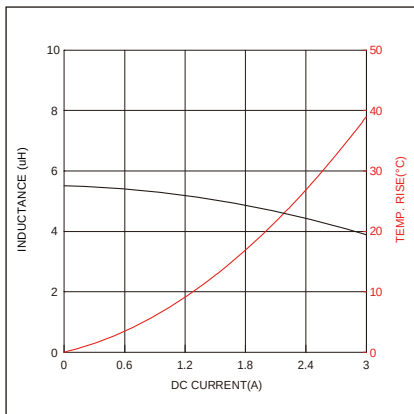
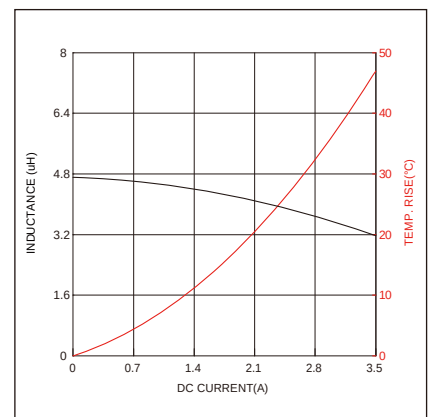
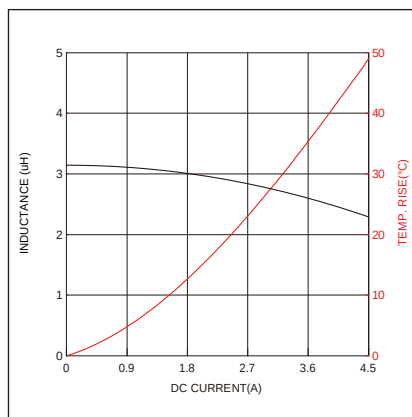
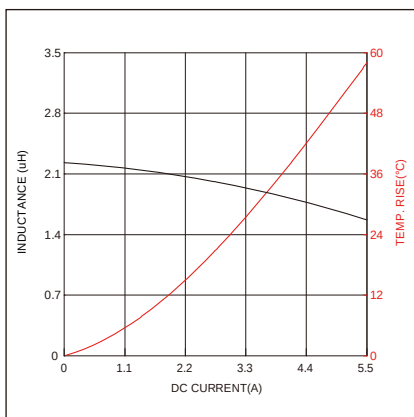
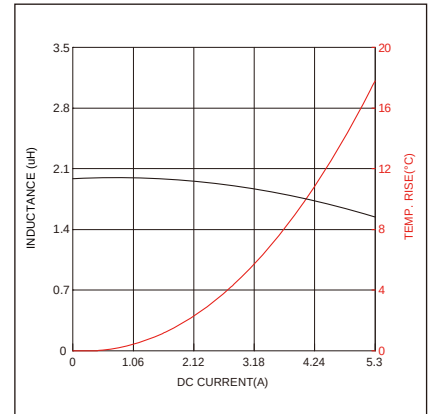
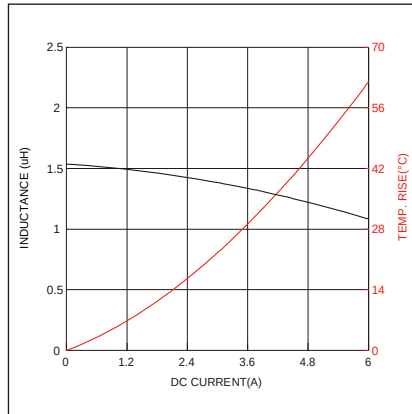
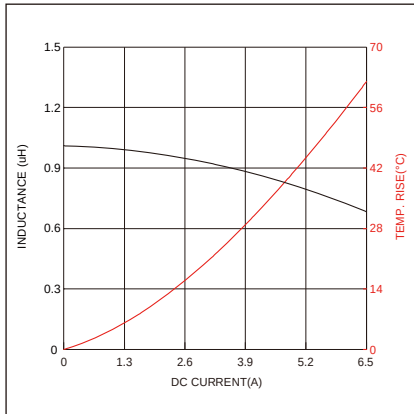
Electrical Properties:

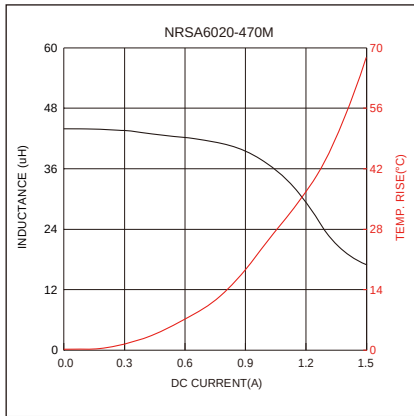
	(μH)		Saturation			
			(A)	(A)	(mΩ)	(MHZ)
NRSA6020-1R0M	1.0	±20%	6.20	4.50	19.0	86
NRSA6020-1R5M	1.5	±20%	5.50	3.80	22.5	72
NRSA6020-2R0M	2.0	±20%	5.30		25.0	71
NRSA6020-2R2M	2.2	±20%	5.00	3.50	29.0	62
NRSA6020-3R3M		±20%	4.00	3.30	35.0	
NRSA6020-4R7M	4.7	±20%	3.00	2.80	54.0	
NRSA6020-5R6M		±20%	2.70	2.60	59.0	32
NRSA6020-6R8M	6.8	±20%	2.60	2.50	78.0	25
NRSA6020-8R2M	8.2	±20%	2.40	2.30	103	24
NRSA6020-100M	10	±20%	2.10	2.10	106	18
NRSA6020-150M	15	±20%	1.50	1.60	138	15
NRSA6020-220M	22	±20%	1.30	1.40	204	12
NRSA6020-470M	47	±20%	0.82	0.75	520	8

will cause the coil temperature rise approximately $\Delta t 40^{\circ}\text{C}$

will cause L to drop approximately 30%.

Typical Electrical Characteristics:





Soldering Reflow:

Preheat condition: 150 ~200 °C / 60~120 sec.

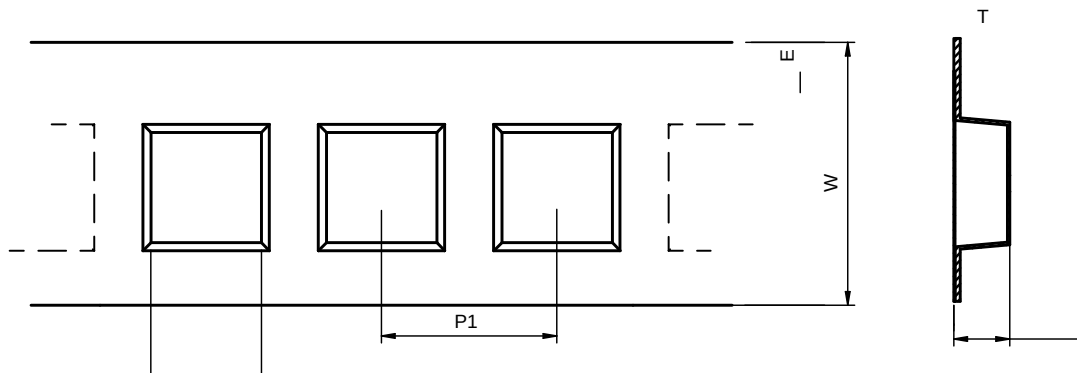
Allowed time above 217 °C : 60~90 sec.

Max temperature: 260 °C .

Allowed Reflow time: 2x max.

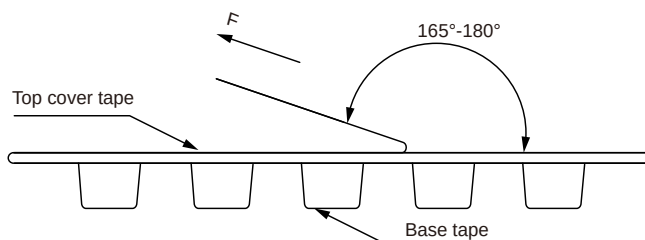
Packaging Information:

Tape Dimension :



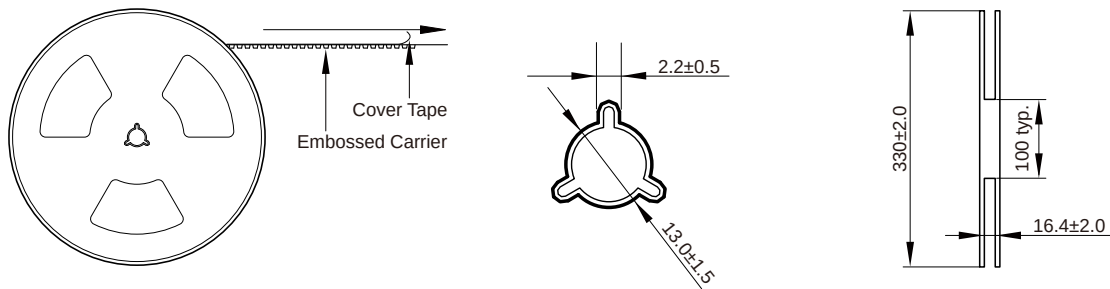
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
NRSA6020	6.4±0.1	6.4±0.1	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	2.3±0.1	1.75±0.1	0.35±0.05

Peel force of top cover tape:

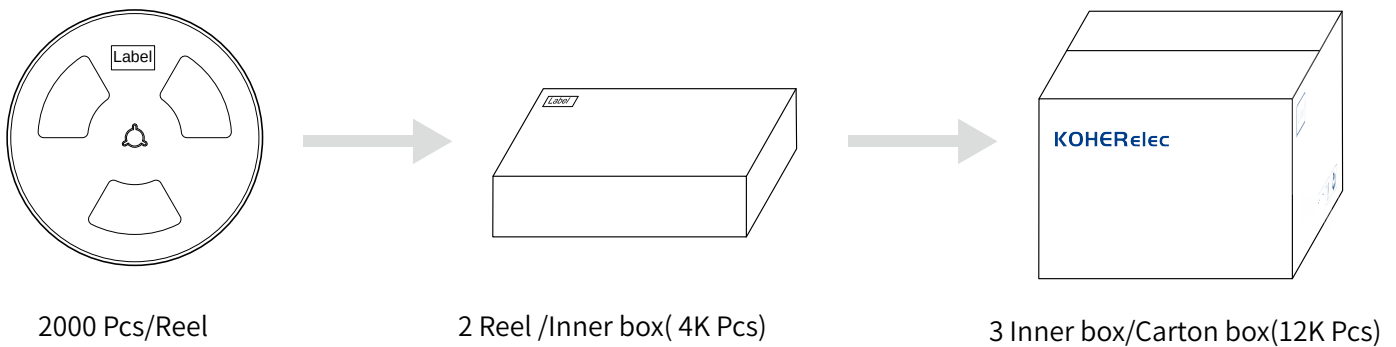


The peel force of top cover tape shall be between 0.3 to 1.17 N

Reel Dimension: [mm]



Packaging Quantity:



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.