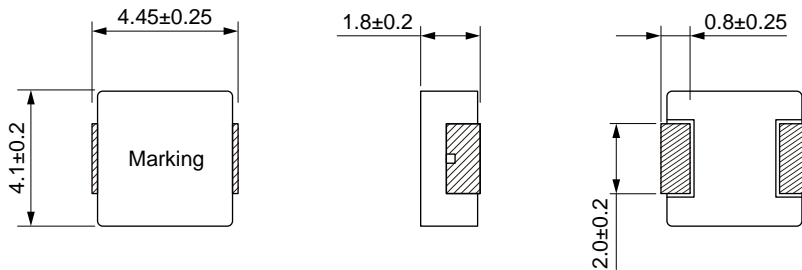


SMD Low Profile High Current Molded Inductor Size 4020

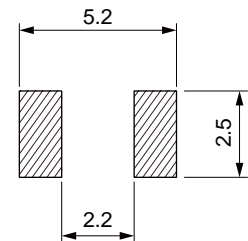


- Shielded construction
 -
 -
 - Ultra low buzz noise, due to composite construction.
 -
 - AEC-Q200 qualified
 - Operating temperature: -55 to +155 °C (including self-temperature rise)
 - Quantity: 3000PCS
-
- Headlamps, tail lamps and interior lighting
 -
 - Doors, window lift and seat control
 -
 -
 - In-Vehicle Infotainment and navigation

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

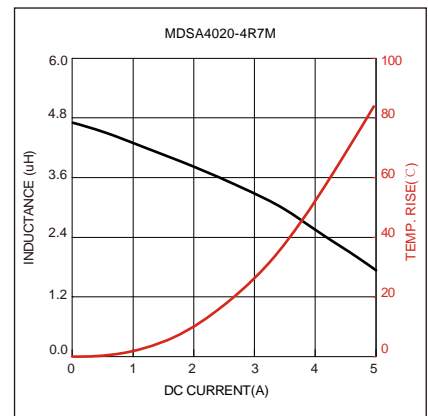
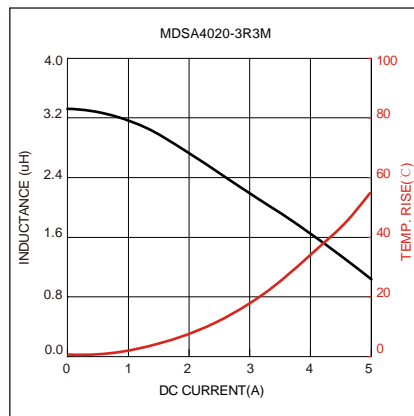
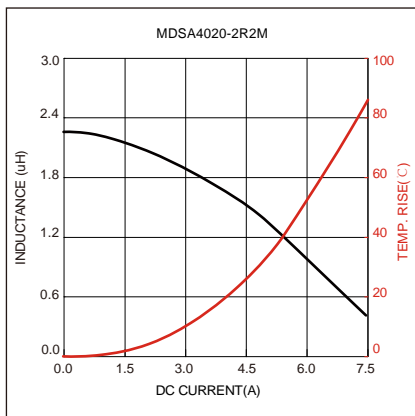
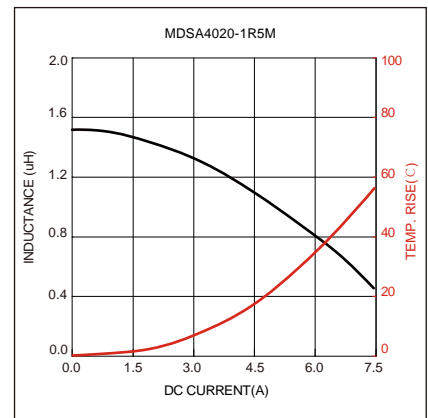
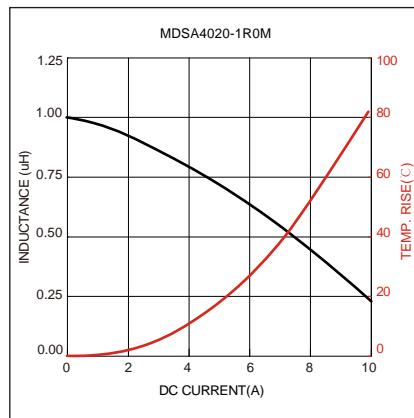
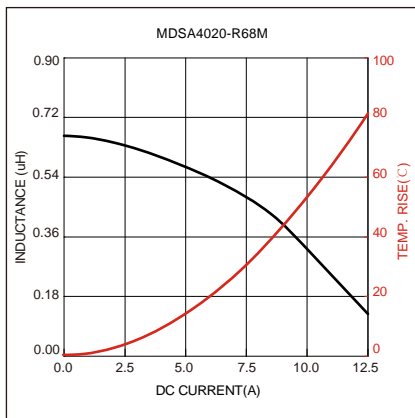
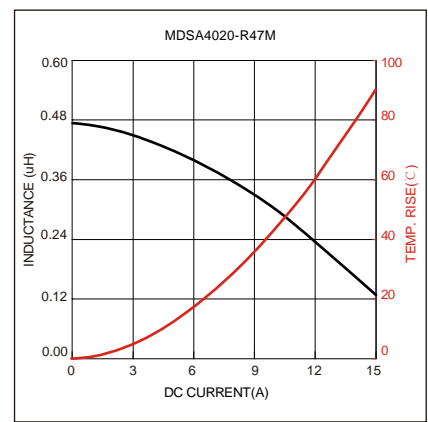
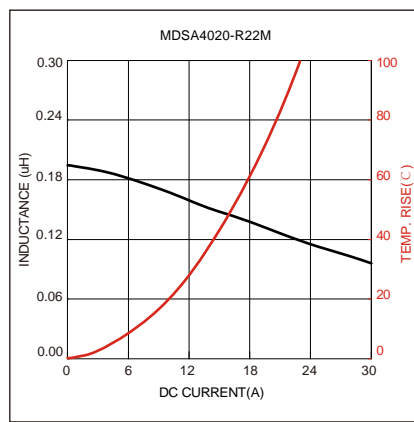
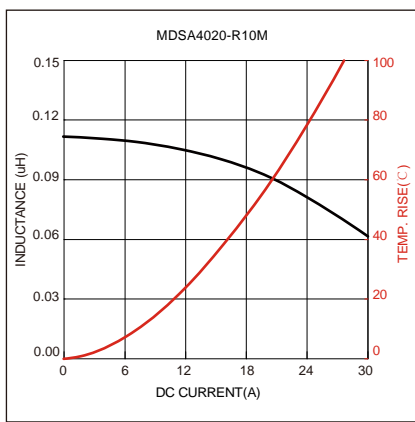
			15.9	13.8			2.91	3.25
					14.9	12.8	4.81	5.50
				8.9	8.9	8.0	9.50	
MDSA 4020-R68M	0.68		8.8	8.0	7.5	6.5		13.7
					5.4	5.0	19.0	
MDSA 4020-1R5M	1.50			5.6	5.0			31.3
			5.5	5.0	4.5			48.0
MDSA 4020-3R3M	3.30			3.4	3.0		65.3	75.1
			3.8	3.0	2.8		84.1	95.2

MDSA4020-5R6M	5.60		3.0		25		97.1	115.3
MDSA4020-6R8M	6.80		28	25			131.2	157.2
MDSA4020-8R2M	8.20		25				140.5	168.0
						1.8	165.0	215.1

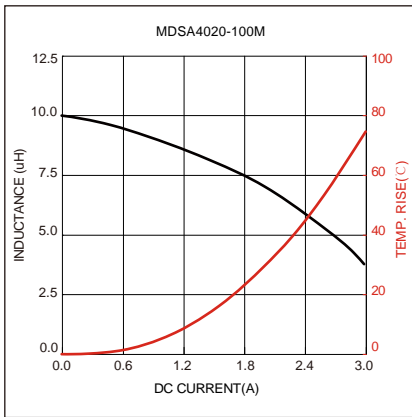
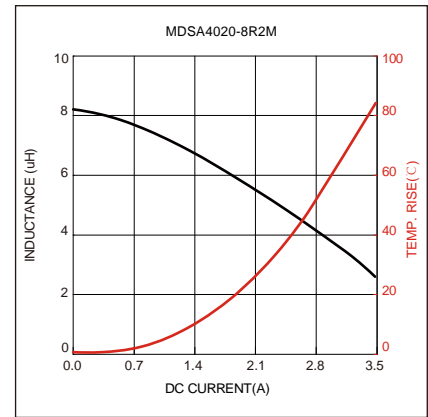
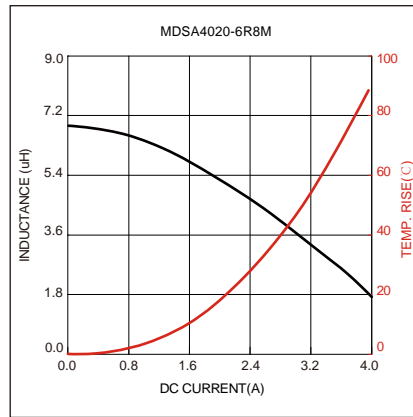
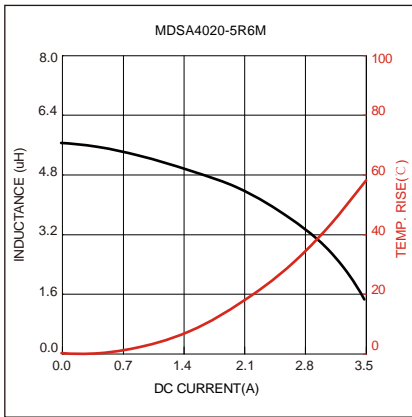
Saturation Current will cause L to drop approximately 30%

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

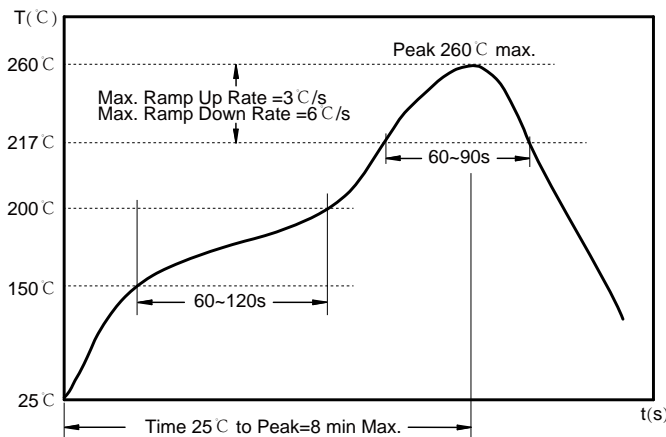
Typical Electrical Characteristics:



Typical Electrical Characteristics:



Soldering Reflow:



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

Allowed time above 217°C : 60~90 sec.

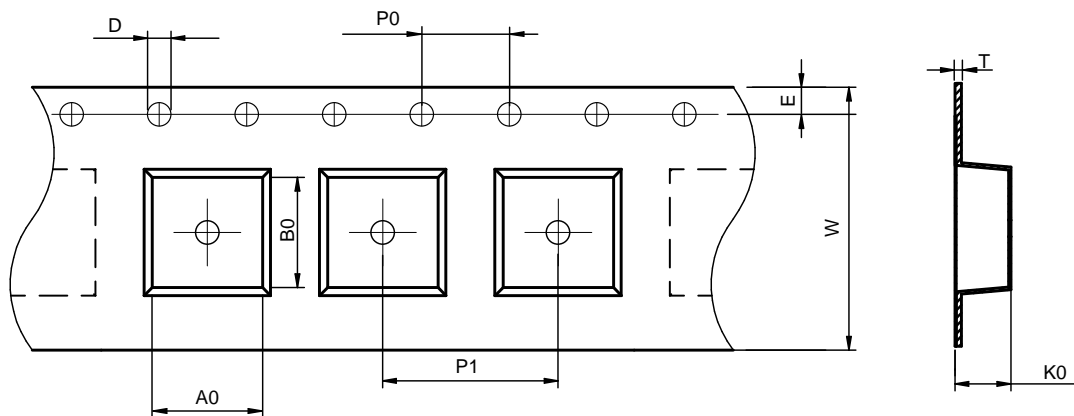
Max temperature: 260°C .

Max time at max temperature: 5 sec.

Allowed Reflow time: 2x max.

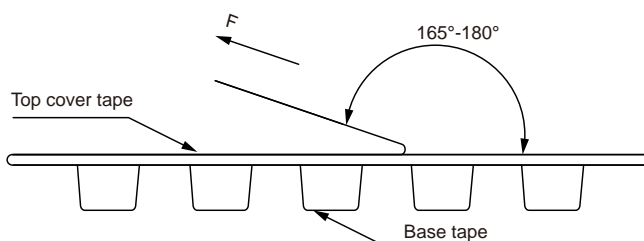
Packaging Information:

Tape Dimension :



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDSA4020	4.5± 0.1	4.85± 0.1	1.5± 0.1	4.0± 0.1	8.0± 0.1	12.0± 0.3	2.3± 0.1	1.75± 0.1	0.35± 0.05

Peel force of top cover tape:

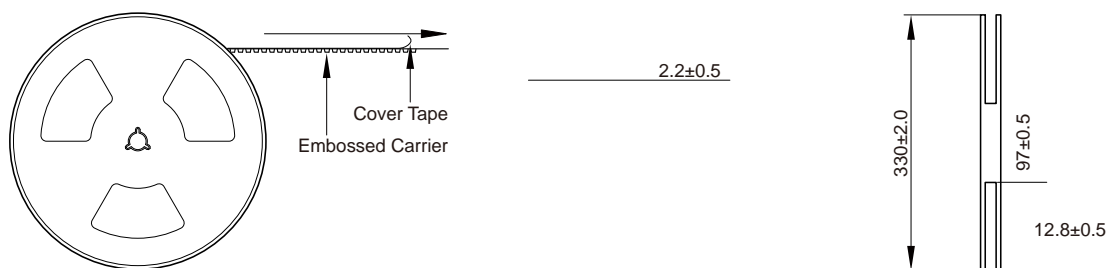


The peel force of top cover tape shall be between 0.1 to 1.3 N

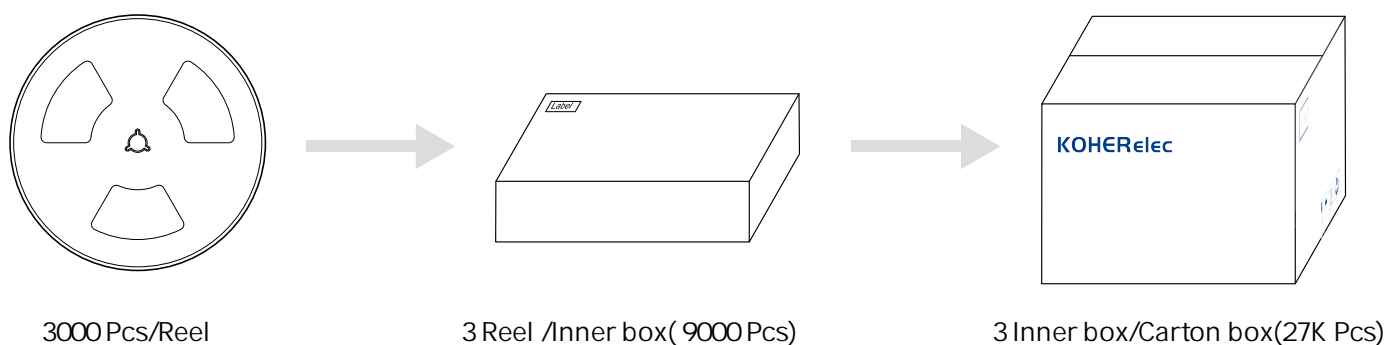
Product Marking:

Marking	K+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.