

SCM Series
SMD Common Mode Inductor
Size 6033



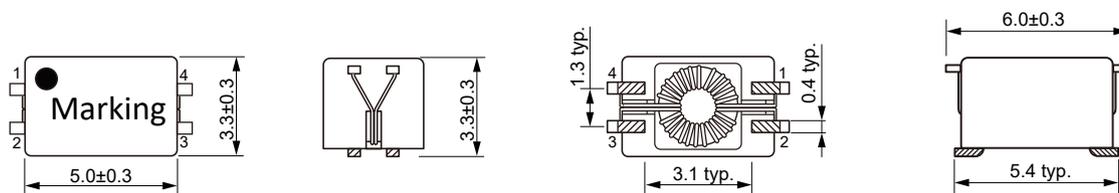
FEATURES

- High current capability up to 400 mA
- Rated voltage: 80 VDC (42 VAC)
- Flammability corresponding to UL 94 V-0
- Operating temperature -40~+125 °C
- Quantity:2000pcs

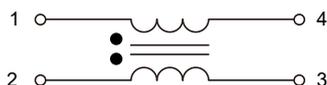
APPLICATIONS

- USB/CAN/FireWire etc.
- Signal and sensor lines
- Power supply systems
- Suppression of common mode noise

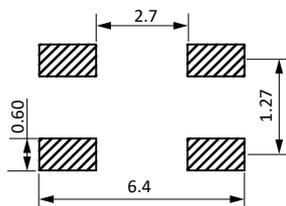
Dimensions: [mm]



Schematic:



Land Pattern: [mm]

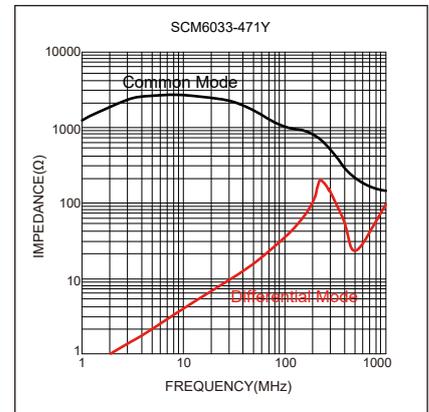
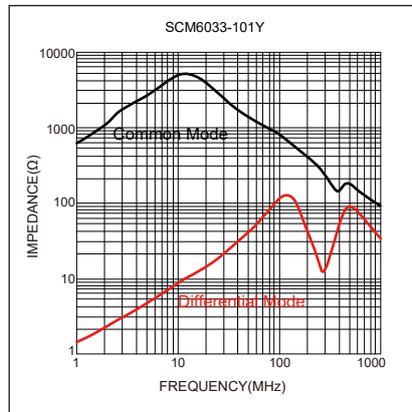
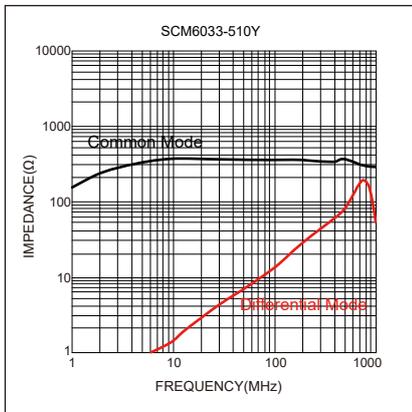
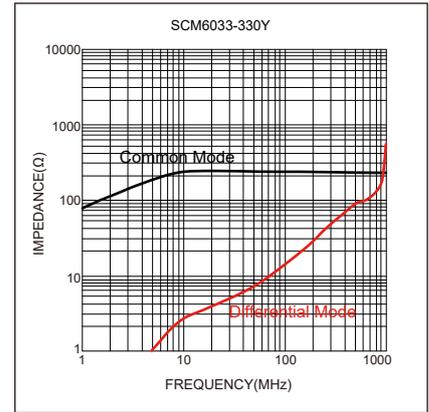
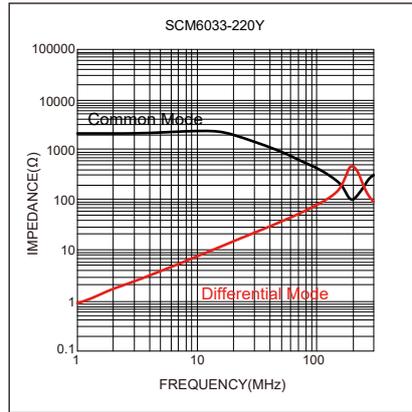
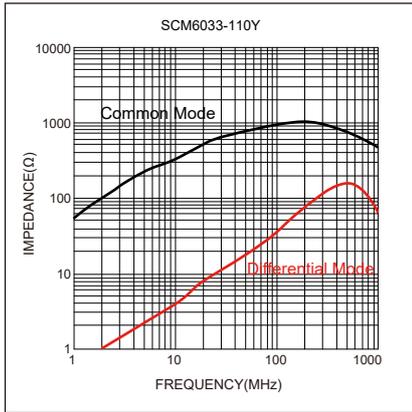


Electrical Properties:

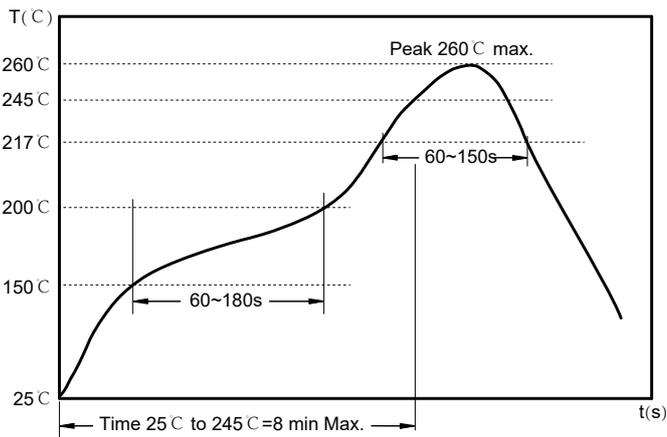
Part No	Inductance @ 10KHz/0.1V (μ H) 1-4=2-3	Tolerance	DC Resistance Max. (Ω) 1-4=2-3	Rated Current Max. (A)	Rated Voltage Typ. (V)	Peak Impedance Typ. (Ω)	Hi-Pot (Vdc) 3mA/1S 1,4-2,3
SCM6033-110Y	11	+50%/-30%	0.18	0.3	80	800	250
SCM6033-220Y	22	+50%/-30%	0.23	0.3	80	1500	250
SCM6033-330Y	33	+50%/-30%	0.27	0.3	80	2000	250
SCM6033-510Y	51	+50%/-30%	0.32	0.4	80	2500	250
SCM6033-101Y	100	+50%/-30%	0.58	0.3	80	4000	250
SCM6033-471Y	470	+50%/-30%	0.35	0.4	80	2200	250

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

Typical Electrical Characteristics:



Soldering Reflow:



Preheat condition: 150 ~200°C / 60~180 sec.

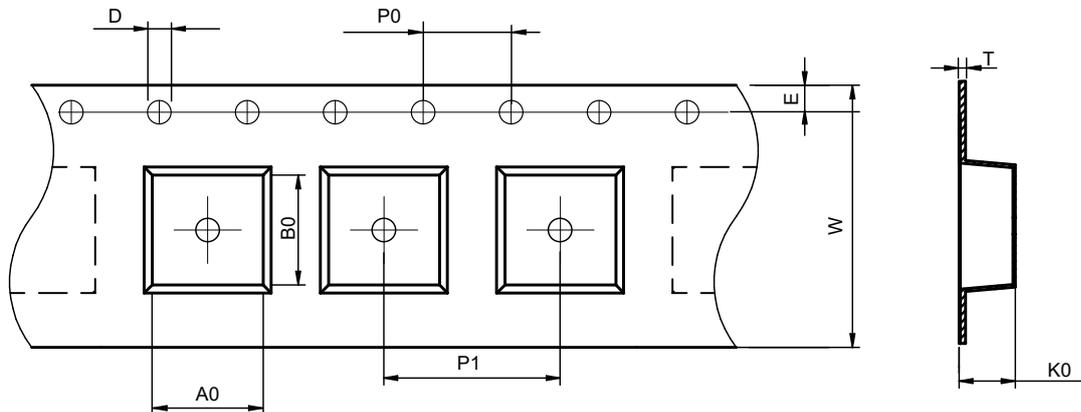
Allowed time above 217°C : 60~150 sec.

Max temperature: 260°C.

Max time at max temperature: 10 sec.

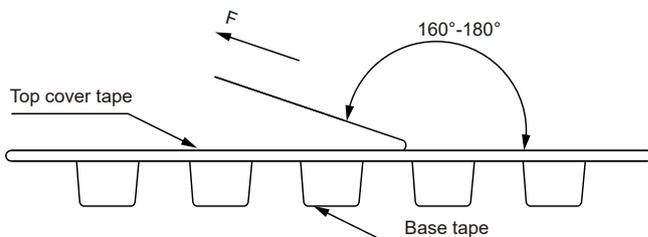
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
SCM6033	4.00±0.1	6.80±0.1	1.5±0.1	4.0±0.1	8.0±0.1	16.0±0.3	3.4±0.1	1.75±0.1	0.35±0.05

Peel force of top cover tape:

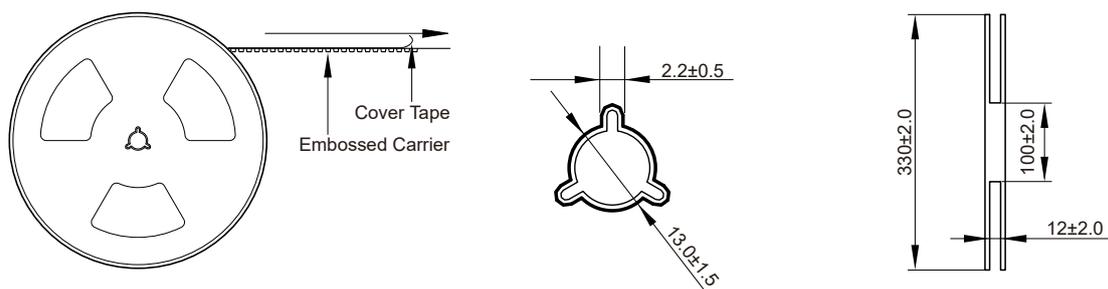


The peel force of top cover tape shall be between 0.1 to 1.17 N

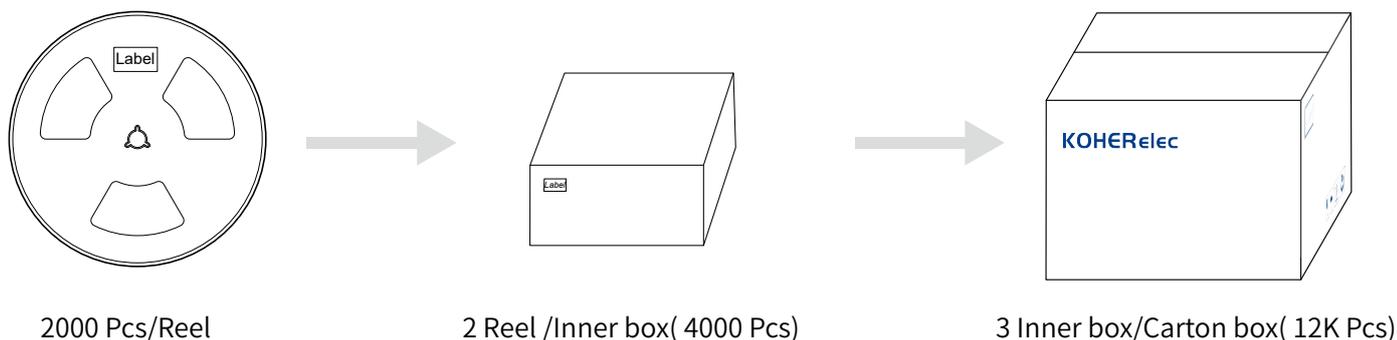
Product Marking:

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.
- 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.