

# SCM Series

## SMD Common Mode Inductor

### Size 6033



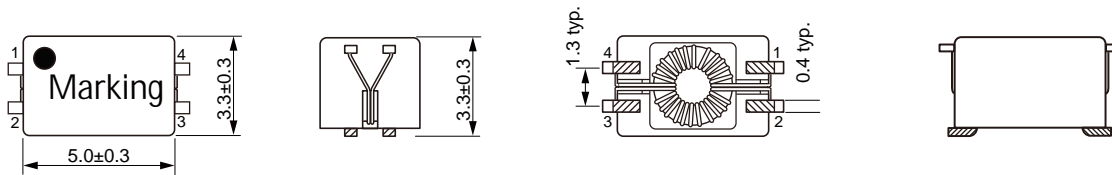
#### FEATURES

- 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

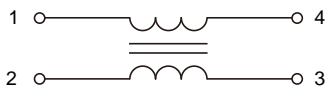
#### APPLICATIONS

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

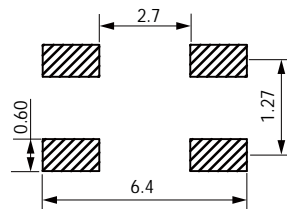
#### Dimensions: [mm]



#### Schematic:



#### Land Pattern: [mm]

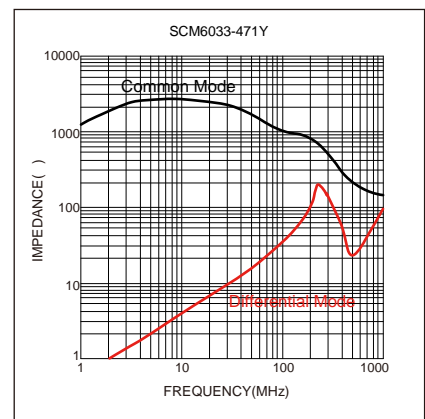
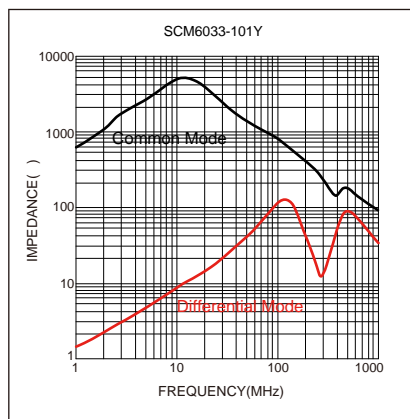
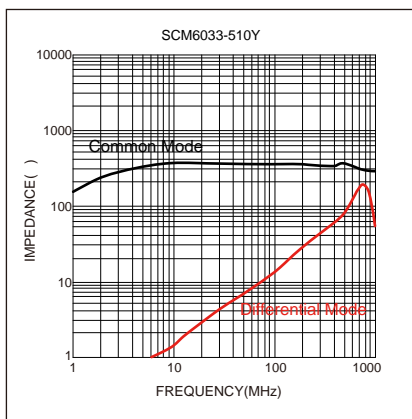
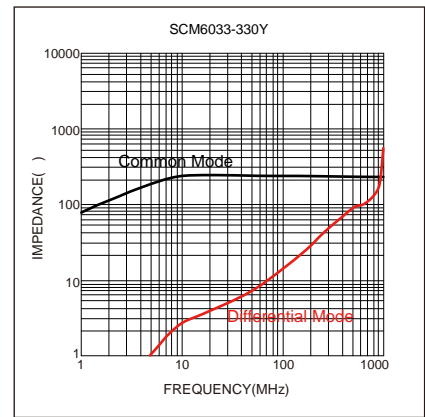
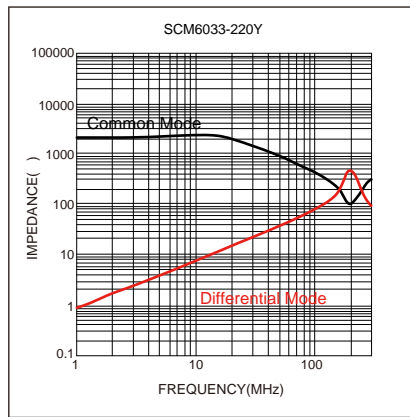
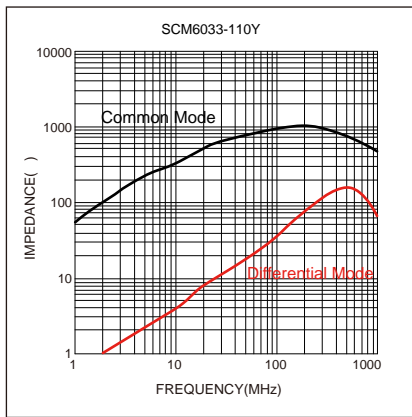


#### Electrical Properties:

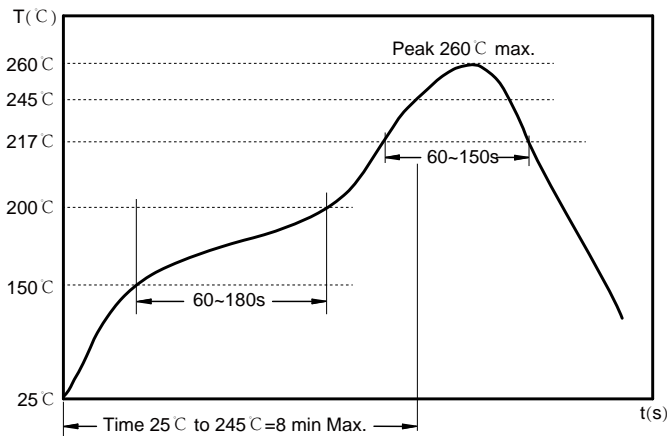
	( $\mu\text{H}$ )		( $\Omega$ )			( $\Omega$ )	
SCM6033-110Y	11	+50%/-30%	0.18	0.3	80	800	250
SCM6033-220Y	22	+50%/-30%	0.23	0.3	80	1500	250
SCM6033-330Y	33	+50%/-30%	0.27	0.3	80	2000	250
SCM6033-510Y	51	+50%/-30%	0.32	0.4	80	2500	250
SCM6033-101Y	100	+50%/-30%	0.58	0.3	80	4000	250
SCM6033-471Y	470	+50%/-30%	0.35	0.4	80	2200	250

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

# Typical Electrical Characteristics:



## Soldering Reflow:



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

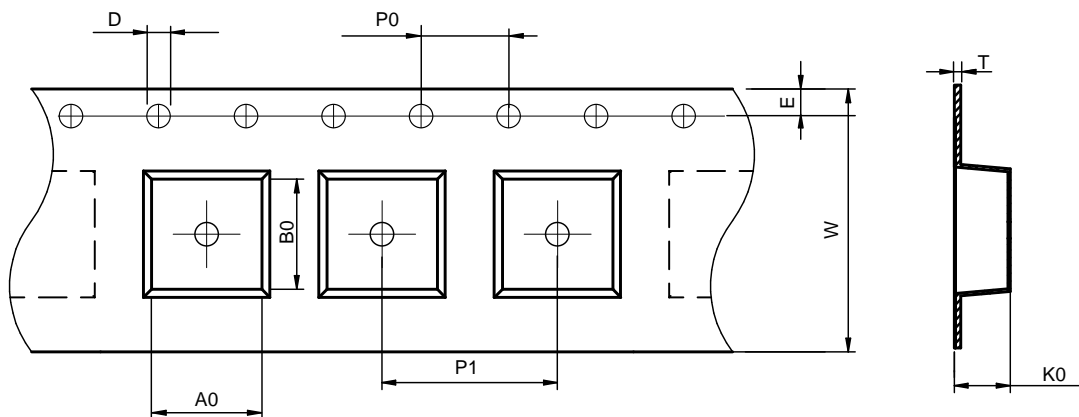
Allowed time above 217 °C : 60~150 sec.

Max temperature: 260 °C.

Max time at max temperature: 10 sec.

## Packaging Information:

### Tape Dimension:

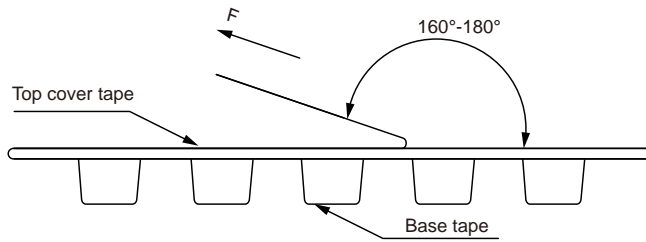


Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
SCM6033	4.00±0.1	6.80±0.1	1.5±0.1	4.0±0.1	8.0±0.1	16.0±0.3	3.4±0.1	1.75±0.1	0.35±0.05

### Product Marking:

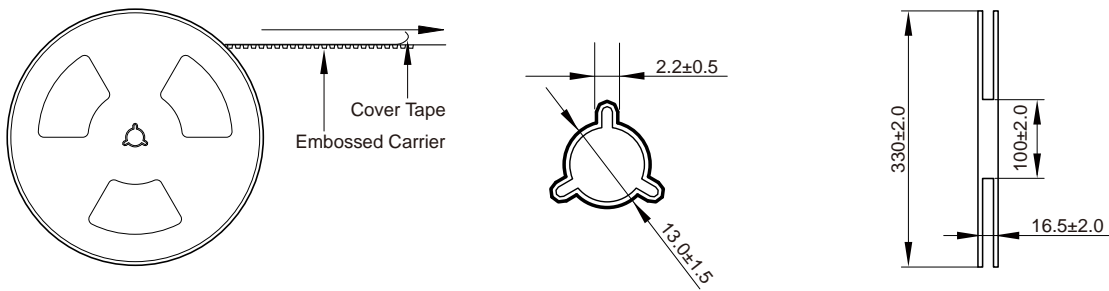
Marking	Printing (Inductance)
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Peel force of top cover tape:

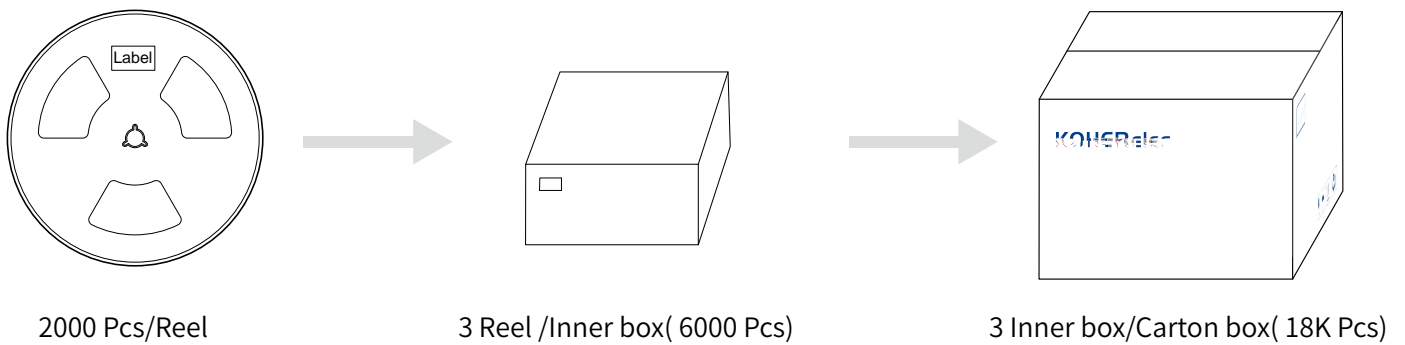


The peel force of top cover tape shall be between 0.1 to 1.17 N

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.
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