

## SCM Series

### SMD Common Mode Inductor

### Size 6033



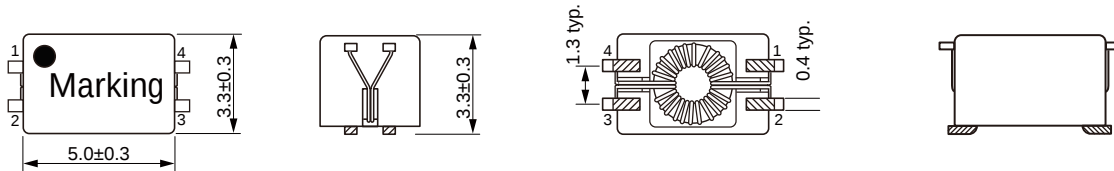
#### FEATURES

- 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

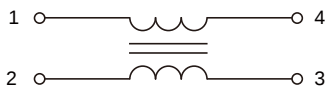
#### APPLICATIONS

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

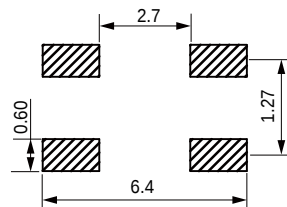
Dimensions: [mm]



Schematic:



Land Pattern: [mm]

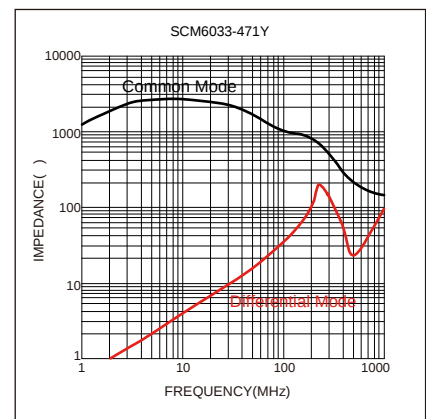
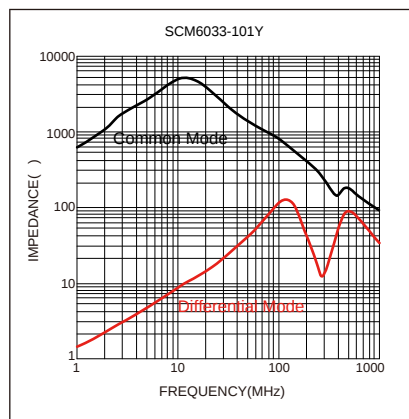
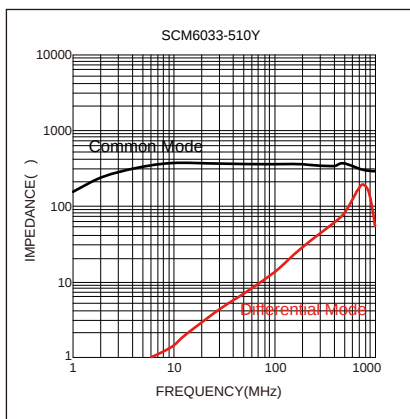
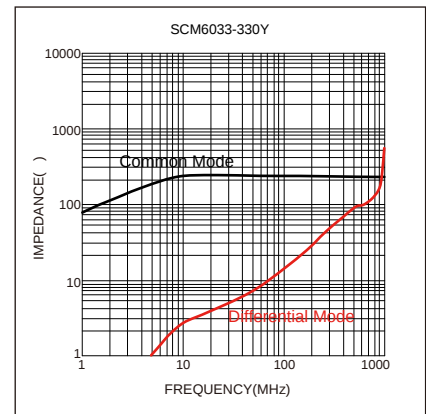
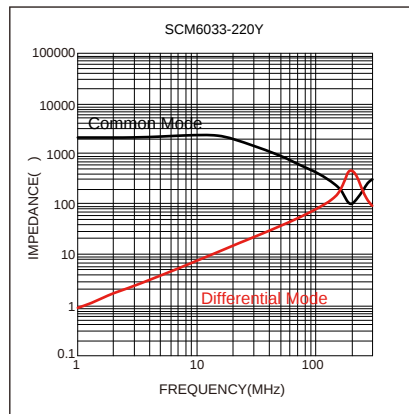
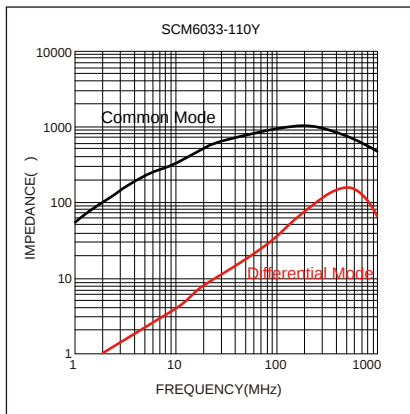


Electrical Properties:

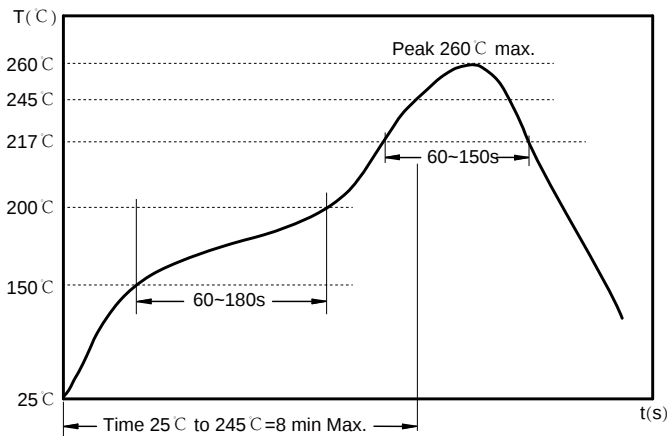
|              | (μH) |           | (Ω)  |     |    | (Ω)  |     |
|--------------|------|-----------|------|-----|----|------|-----|
| SCM6033-110Y | 11   | +50%/-30% | 0.18 | 0.3 | 80 | 800  | 250 |
| SCM6033-220Y | 22   | +50%/-30% | 0.23 | 0.3 | 80 | 1500 | 250 |
| SCM6033-330Y | 33   | +50%/-30% | 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.

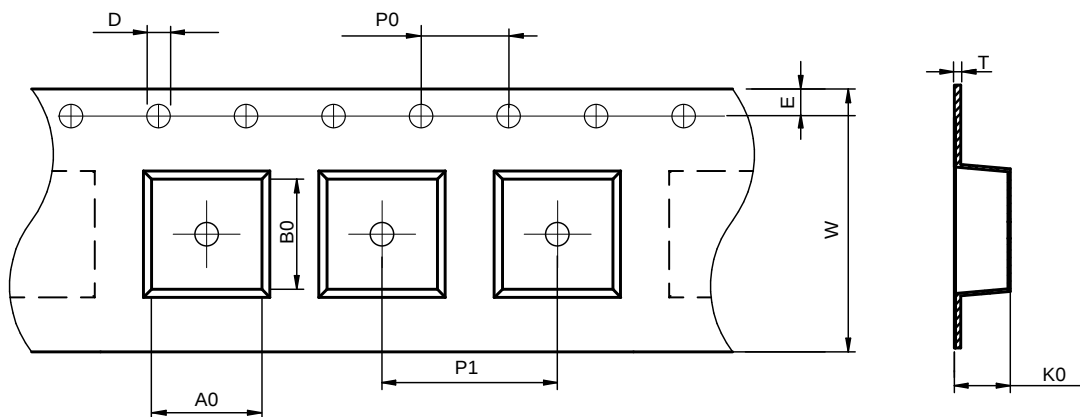
Allowed time above 217 °C : 60~150 sec.

Max temperature: 260 °C .

Max time at max temperature: 10 sec.

## Packaging Information:

### Tape Dimension :

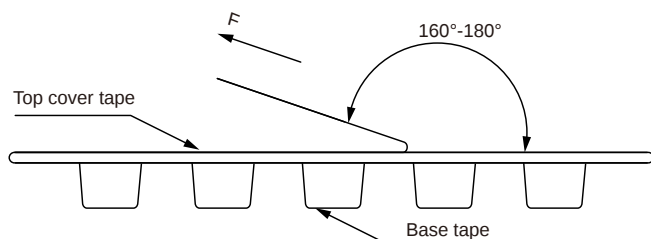


| Series  | A0<br>(mm) | B0<br>(mm) | D<br>(mm) | P0<br>(mm) | P1<br>(mm) | W<br>(mm) | K0<br>(mm) | E<br>(mm) | T<br>(mm) |
|---------|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| SCM6033 | 4.00±0.1   | 6.80±0.1   | 1.5±0.1   | 4.0±0.1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

### Product Marking:

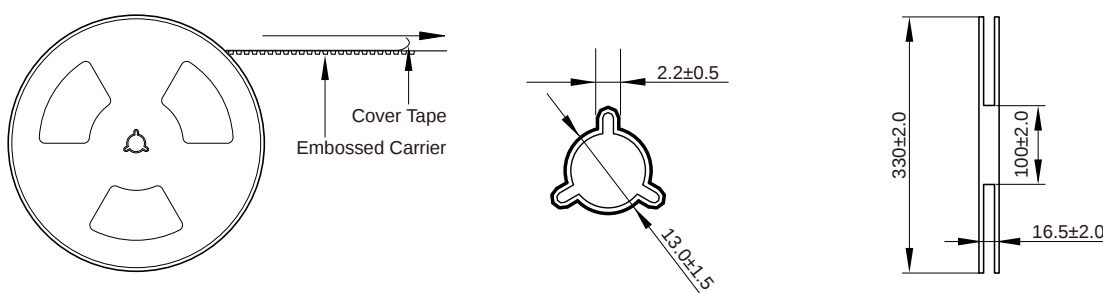
|         |                       |
|---------|-----------------------|
| Marking | Printing (Inductance) |
|---------|-----------------------|

Peel force of top cover tape:

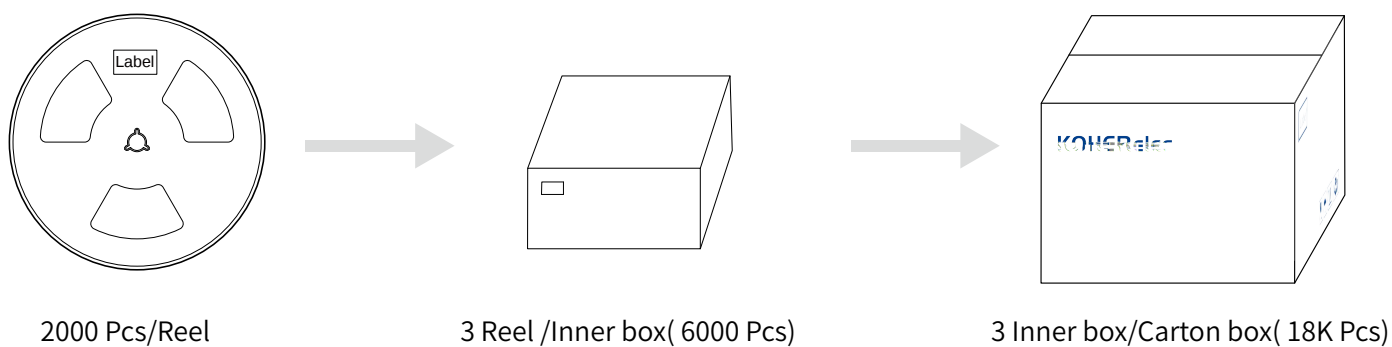


The peel force of top cover tape shall be between 0.1 to 1.17 N

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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