

**SCM Series**  
**SMD Common Mode Inductor**  
**Size 6536**



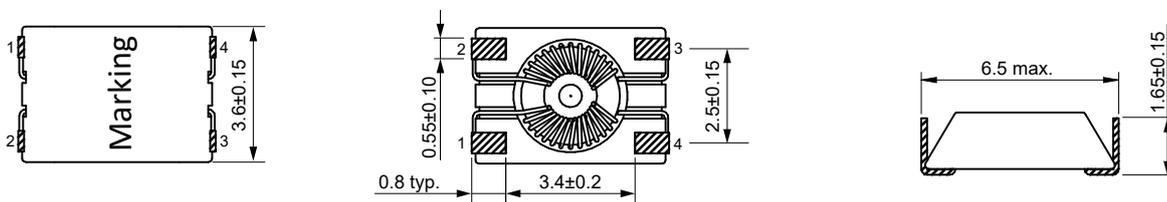
**FEATURES**

- Chip common mode filter for large current applications.
- Low profile design makes it optimal for surface mounting.
- Operating temperature -40~+105 °C
- Quantity: 2500PCS

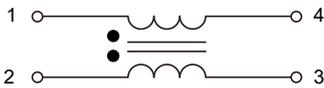
**APPLICATIONS**

- Power line noise countermeasure for various electronic equipment
- Noise countermeasure for adapter lines and battery lines or larger electronic equipment such as note PCs and word processors

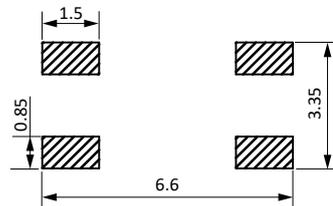
**Dimensions: [mm]**



**Schematic:**



**Land Pattern: [mm]**

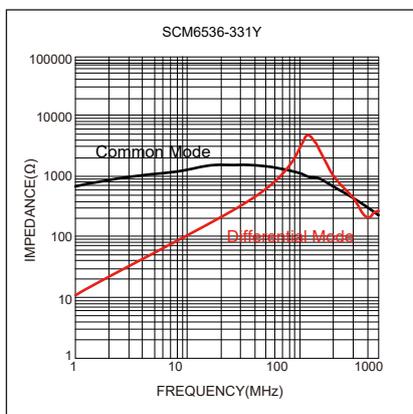
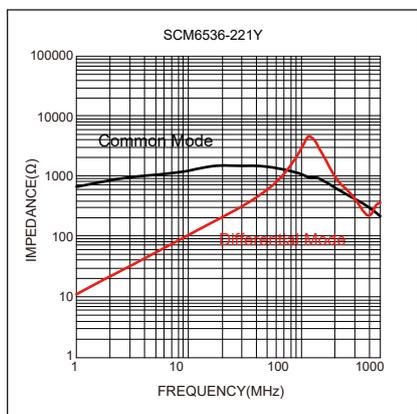
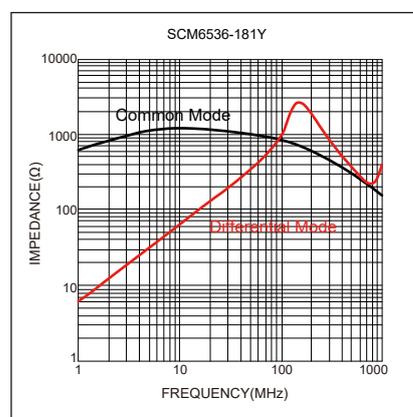
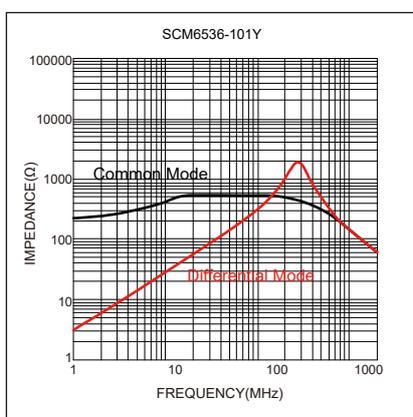
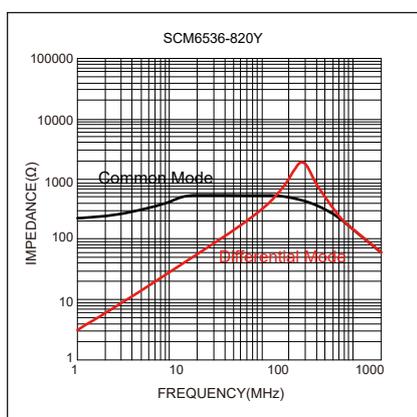
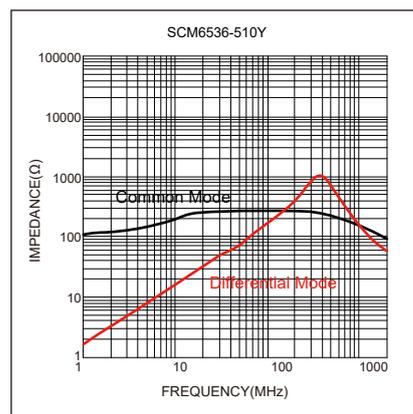
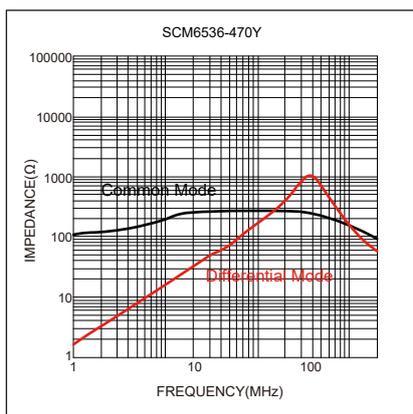
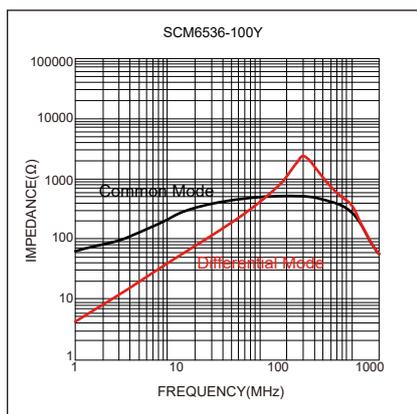


**Electrical Properties:**

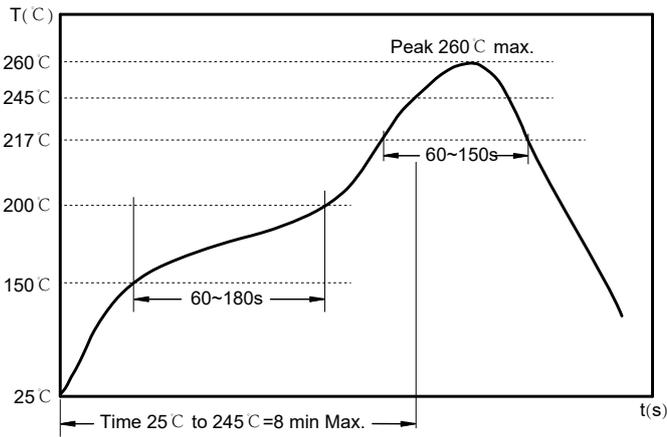
Part No	Inductance @ 10KHz/0.1V ±50% (μH) 1-4=2-3	Leakage Inductance @1MHz/1mA Typ. (nH) 1-4(2-3 short)	DC Resistance Max. (Ω) 1-4=2-3	Rated Current Max. (A)	Rated Voltage Typ. (V)	Impedance Typ. (Ω)	Frequency Range (MHz)	Hi-Pot (Vdc) 3mA/1S 1,4-2,3
SCM6536-100Y	10	580	0.24	0.3	80	1200	35-570	250
SCM6536-470Y	47	280	0.16	0.3	80	300	4-1600	250
SCM6536-510Y	51	270	0.16	0.3	80	300	4-1600	250
SCM6536-820Y	82	370	0.20	0.3	80	440	3-850	250
SCM6536-101Y	100	530	0.22	0.3	80	500	3-660	250
SCM6536-181Y	180	760	0.25	0.3	80	1000	3-250	250
SCM6536-221Y	220	950	0.28	0.3	80	1200	3-210	250
SCM6536-331Y	330	1300	0.30	0.3	80	2000	3-120	250

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

## Typical Electrical Characteristics:



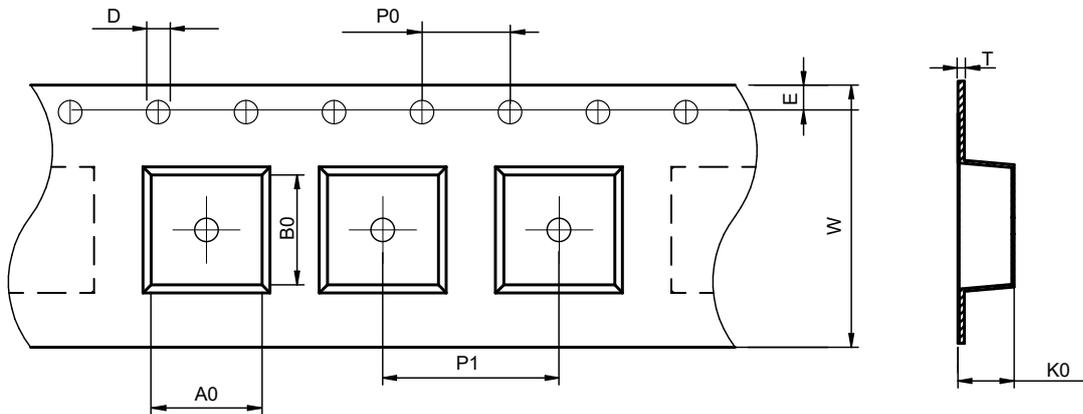
Soldering Reflow:



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.

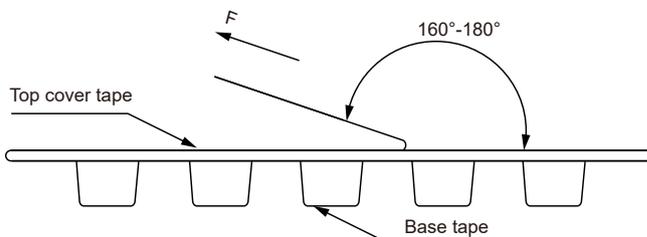
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
SCM6536	4.20±0.1	6.80±0.1	1.5±0.1	4.0±0.1	8.0±0.1	12.0±0.3	2.1±0.1	1.75±0.1	0.30±0.05

Peel force of top cover tape:

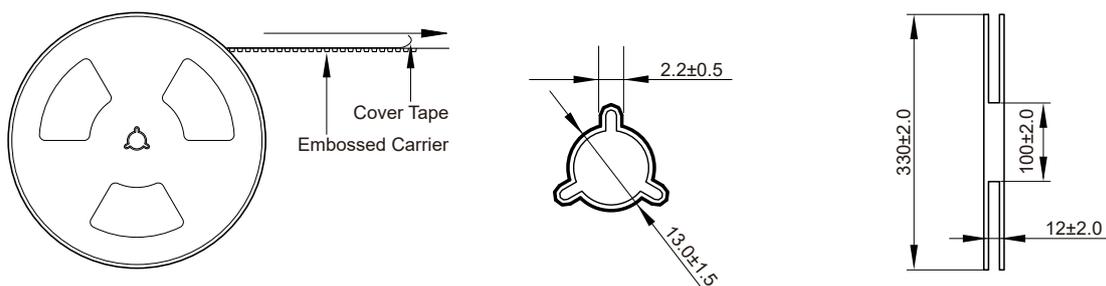


The peel force of top cover tape shall be between 0.1 to 1.17 N

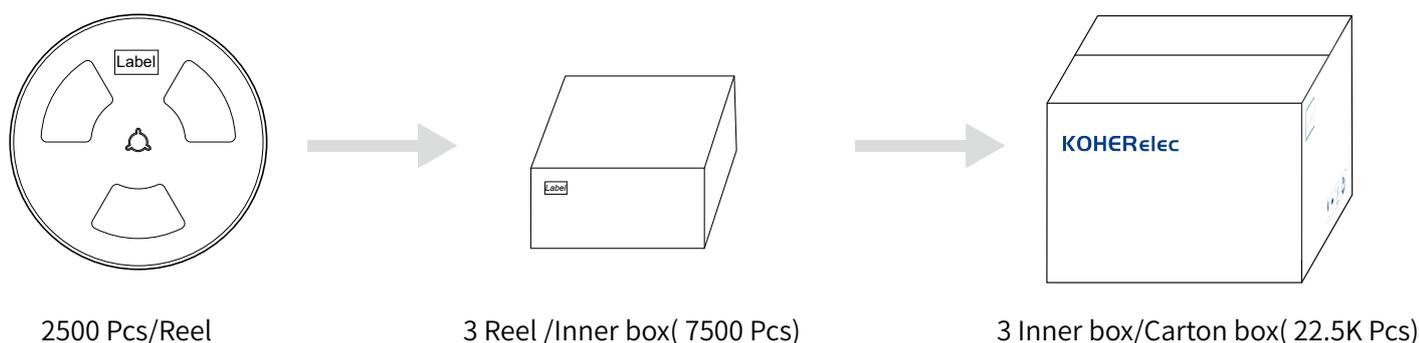
Product Marking:

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.