

**SCM Series**  
**SMD Common Mode Line Filter**  
**Size 9250**



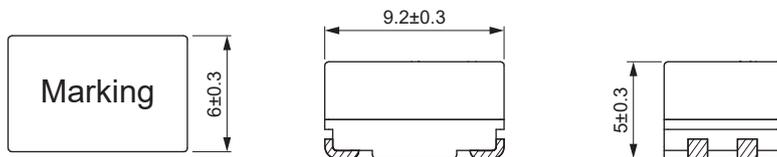
**FEATURES**

- Chip common mode filter for large current applications.
- Low profile design makes it optimal for surface mounting.
- Operating temperature -40~+125 °C
- Quantity:1000pcs

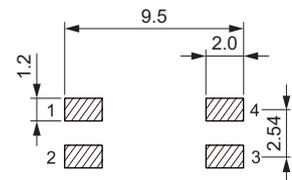
**APPLICATIONS**

- 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

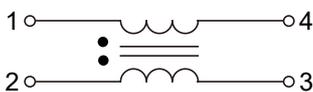
**Dimensions: [mm]**



**Land Pattern: [mm]**



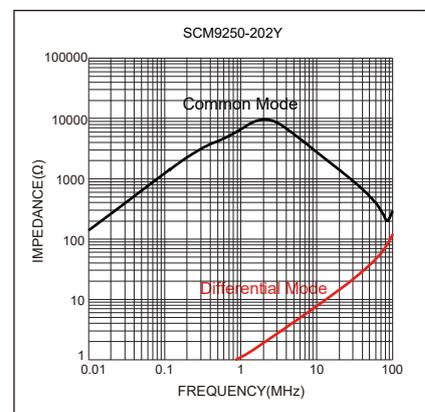
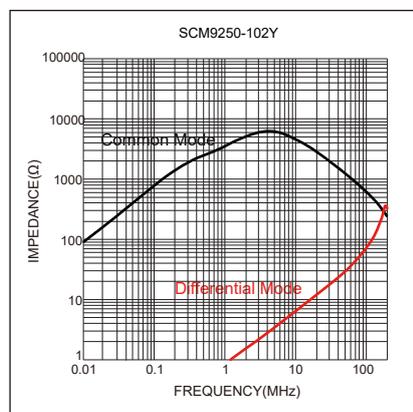
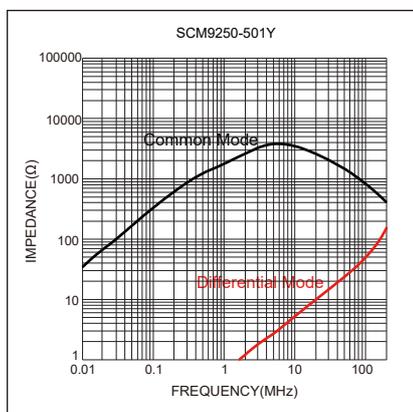
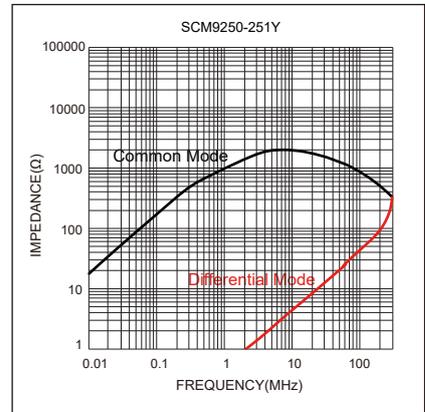
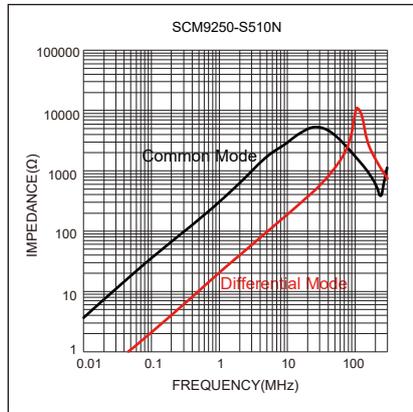
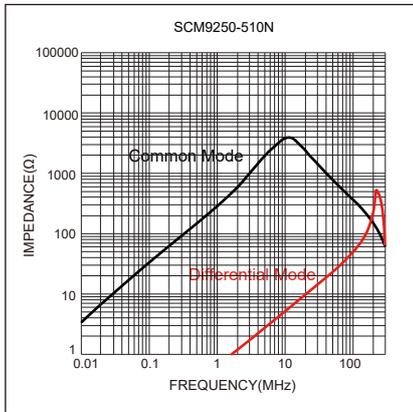
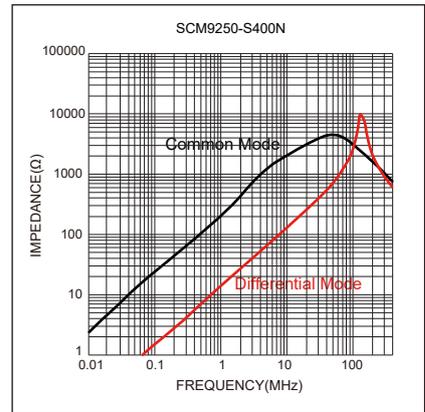
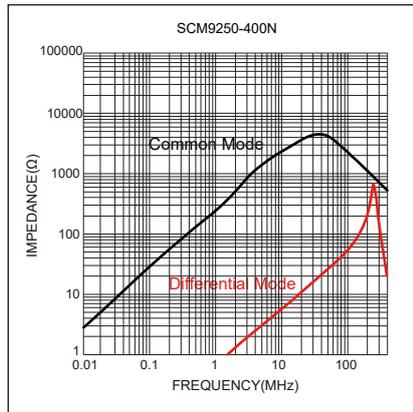
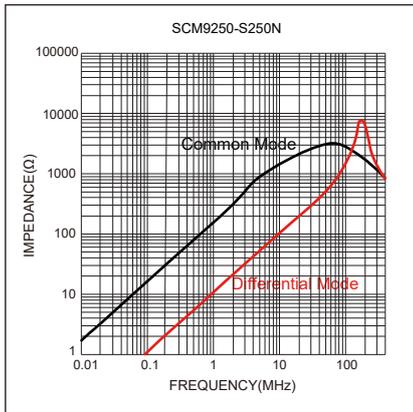
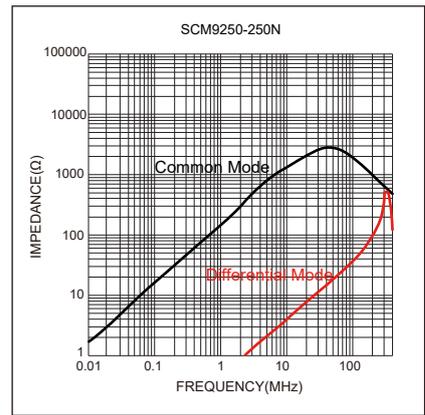
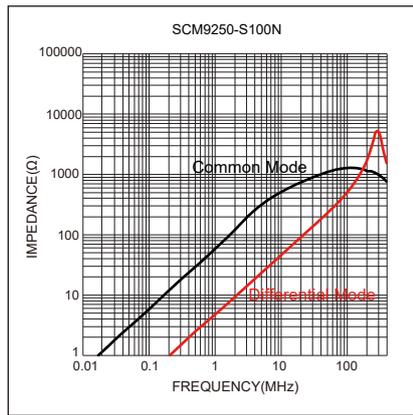
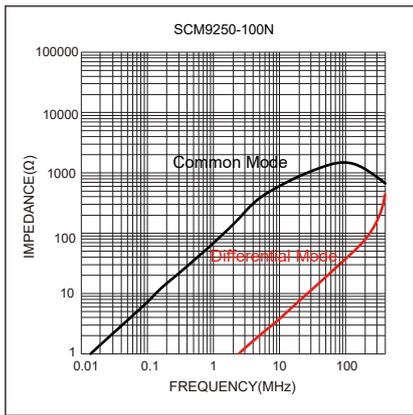
**Schematic:**

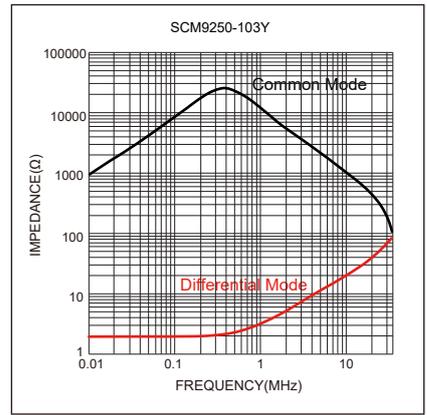
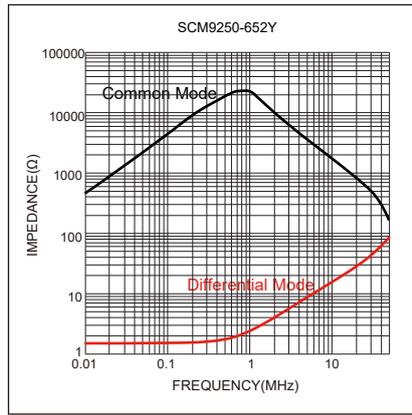
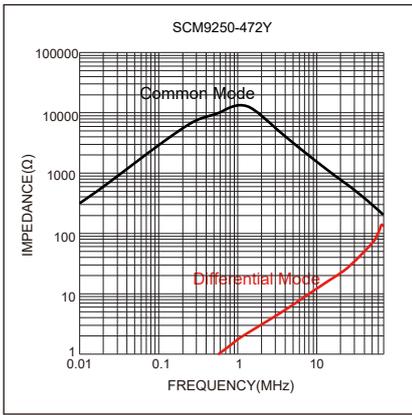


**Electrical Properties:**

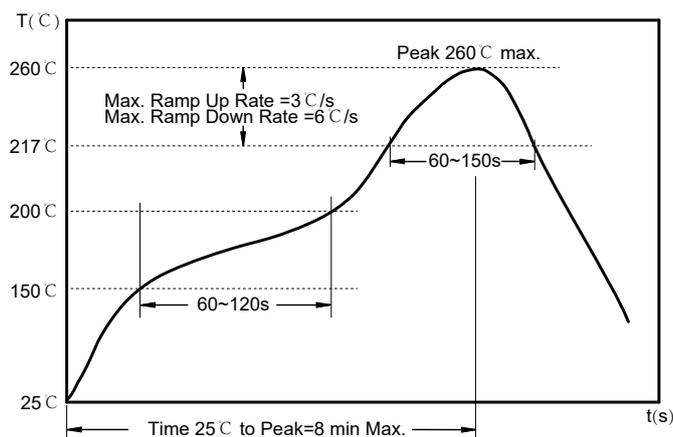
Part No	Inductance (μH)	Tol.	Rated Current Max. (A)	DCR Max. (Ω)	Rated Volt. Max. (V)	Test Condition
SCM9250-100Y	10	+50% / -30%	1.6	0.08	80	1kHz/0.1V
SCM9250-S100Y	10	+50% / -30%	1.6	0.08	80	1kHz/0.1V
SCM9250-250N	25	±30%	1.0	0.12	80	1kHz/0.1V
SCM9250-S250N	25	±30%	1.0	0.12	80	1kHz/0.1V
SCM9250-400N	40	±30%	0.9	0.25	80	1kHz/0.1V
SCM9250-S400N	40	±30%	0.9	0.25	80	1kHz/0.1V
SCM9250-510N	51	±30%	1.0	0.16	80	1kHz/0.1V
SCM9250-S510N	51	±30%	1.0	0.16	80	1kHz/0.1V
SCM9250-251Y	250	±50%	1.2	0.13	80	100kHz/5mV
SCM9250-501Y	500	±50%	1.0	0.15	80	100kHz/5mV
SCM9250-102Y	1000	±50%	0.8	0.31	80	100kHz/5mV
SCM9250-202Y	2000	±50%	0.6	0.42	80	100kHz/5mV
SCM9250-472Y	4700	±50%	0.5	0.75	80	100kHz/5mV
SCM9250-652Y	6500	±50%	0.4	0.95	80	10kHz/50mV
SCM9250-103Y	10000	±50%	0.35	1.2	80	10kHz/50mV

Typical Electrical Characteristics:





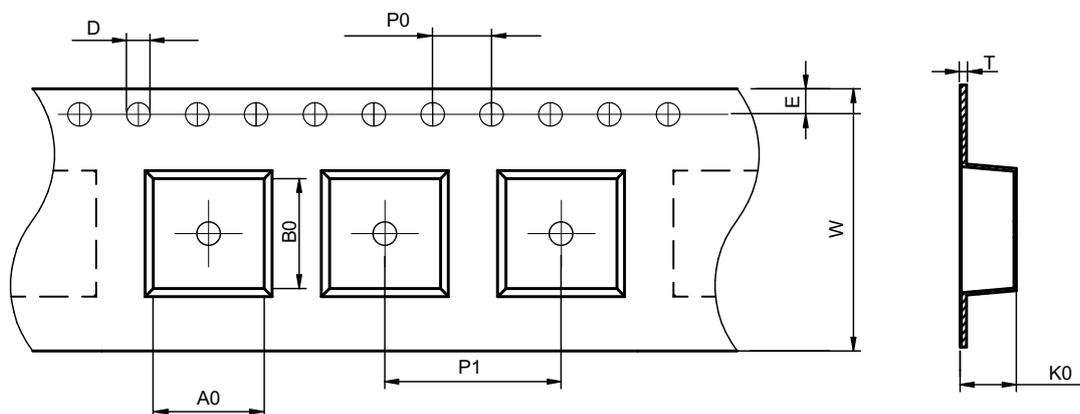
### Soldering Reflow:



Preheat condition: 150 ~200 °C / 60~120 sec.  
 Allowed time above 217 °C: 60~150 sec.  
 Max temperature: 260 °C.  
 Allowed Reflow time: 2x max.

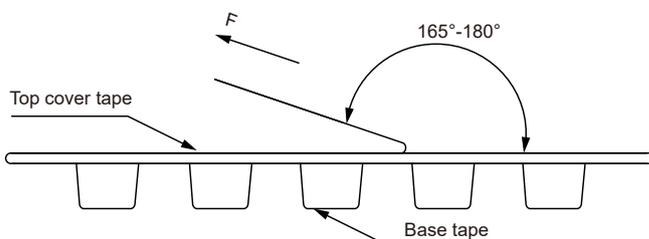
### Packaging Information:

#### Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
SCM9250	6.5 typ	9.7 typ	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	5.7 ref	1.75±0.1	0.4±0.1

#### Peel force of top cover tape:

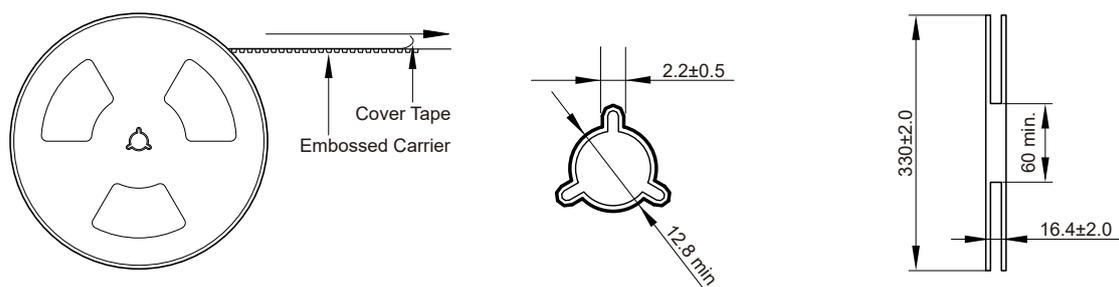


The peel force of top cover tape shall be between 0.1 to 1.3 N

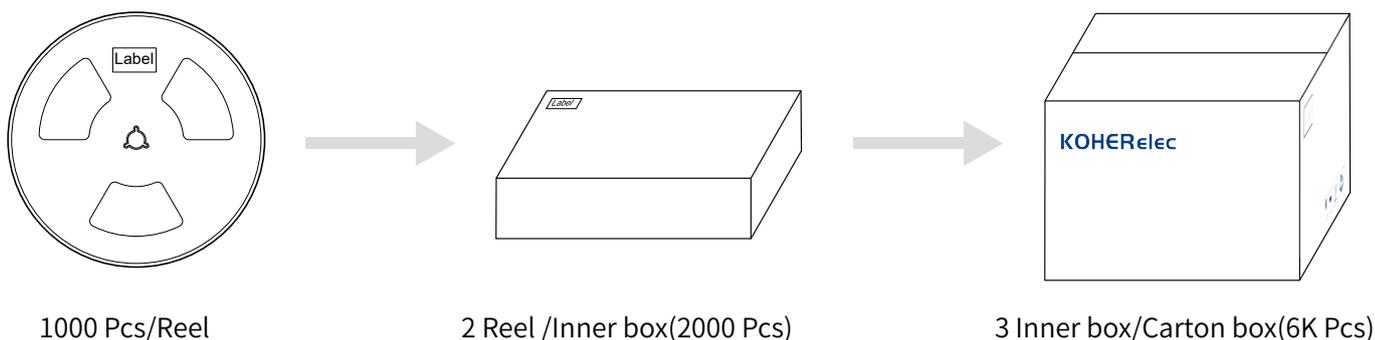
#### Product Marking:

Marking	Dot+Printing (Duplex winding) /Printing (Split winding)
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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.