

SCM Series  
SMD Common Mode Inductor  
Size 4015

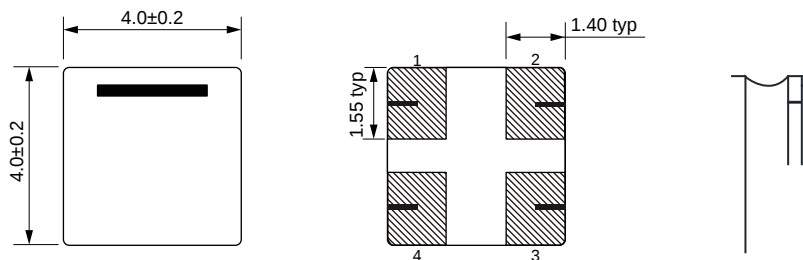
FEATURES

- Chip common mode filter for large current applications.
- Low profile design makes it optimal for surface mounting.
- Operating temperature: -40~+125℃.
- Quantity:2500pcs.

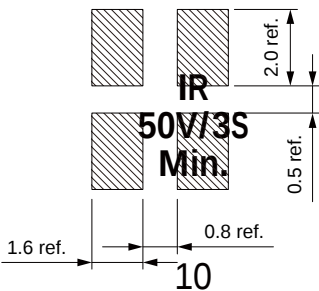
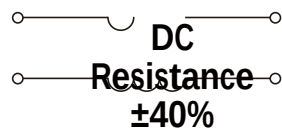
APPLICATIONS

- Countermeasure of Common mode noise in power lines for various devices.

Dimensions: [mm]



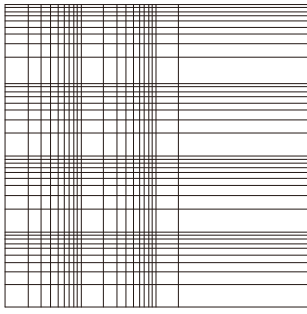
Schematic:



Electrical Properties:

| Part No      | Impedance<br>@ 10 MHz<br>±40% | Impedance<br>@ 100 MHz<br>Typ. |  |  |  |  |  |
|--------------|-------------------------------|--------------------------------|--|--|--|--|--|
| SCM4015-101Y | 0.030                         |                                |  |  |  |  |  |
| SCM4015-251Y | 0.030                         |                                |  |  |  |  |  |
| SCM4015-401Y | 0.030                         |                                |  |  |  |  |  |
| SCM4015-501Y | 0.040                         |                                |  |  |  |  |  |
| SCM4015-601Y |                               |                                |  |  |  |  |  |
| SCM4015-851Y |                               |                                |  |  |  |  |  |





Soldering Reflow:

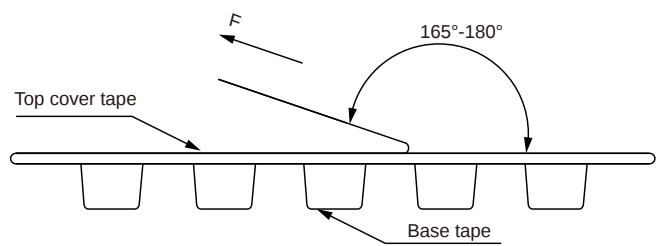
Preheat condition: 150 ~200℃ / 60~180 sec.  
Allowed time above 217℃ : 60~150 sec.  
Max temperature: 260℃ .  
Max time at max temperature: 10 sec.

Packaging Information:

Product Marking:

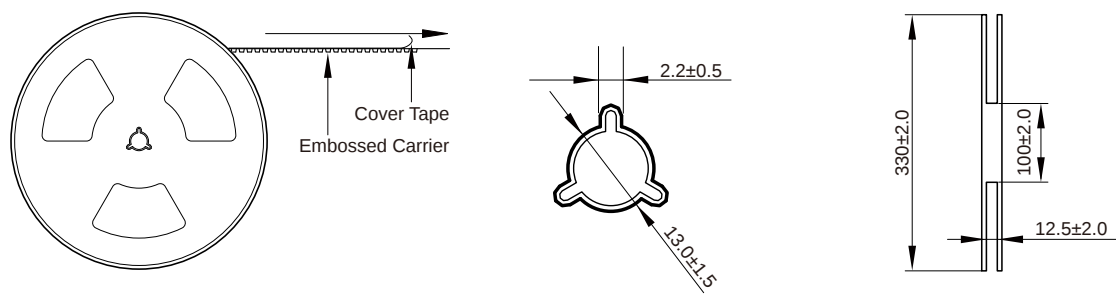
|         |            |
|---------|------------|
| Marking | Black bars |
|---------|------------|

Peel force of top cover tape:

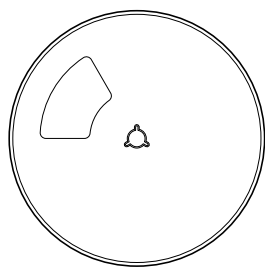


The peel force of top cover tape shall be between 0.1 to 1.17 N

Reel Dimension: [mm]



Packaging Quantity:



2500 Pcs/Reel

3 Reel /Inner box(7500 Pcs)

3 Inner box/Carton box(22.5K Pcs)

## 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.

### Conformal coating:

- The inductance value may change due to the high cure stress of the resin used for coating or molding.
- An open circuit may occur due to mechanical stress from the resin, its amount, cured shape, or operating conditions.
- Please exercise careful attention when selecting a resin for the coating or molding process.
- Prior to using the coating resin, please verify that no reliability issues are observed.
- When applying conformal coating for product protection, materials with a high shrinkage rate should be avoided. If such materials must be used, it is recommended to apply silicone around the inductor core in a closed loop to prevent the conformal coating from flowing into or penetrating the windings, thereby avoiding open-circuit failures caused by the coating's thermal stress.