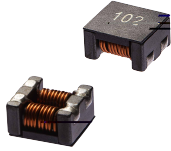
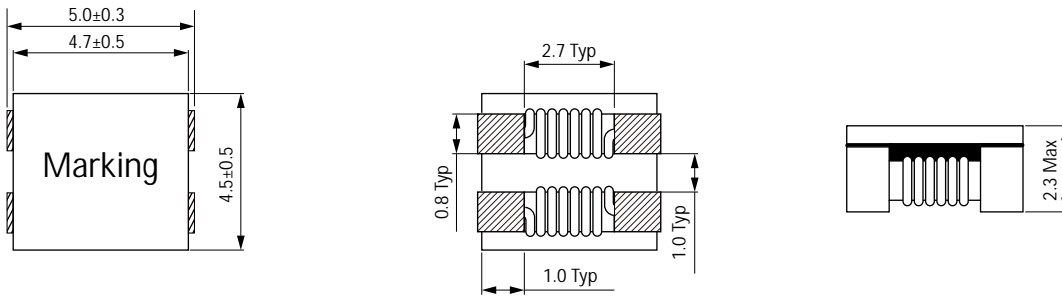


# SMD Common Mode Inductor Size 4520

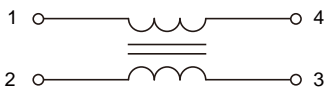


- Chip common mode filter for large current applications.
  - Optimal for surface mounting with low profile 2.0 mm.
  - The product series is designed for use up to 2.0A
  - Operating temperature -40~+125 °C
  - Quantity:1000pcs
- 
- Measures against common mode noise in power lines for various DC power lines, multimedia devices, and various electronic devices

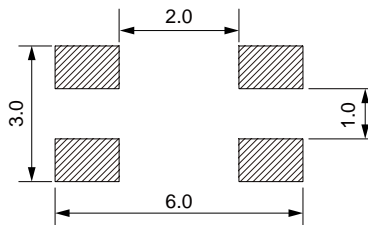
## Dimensions: [mm]



## Schematic:



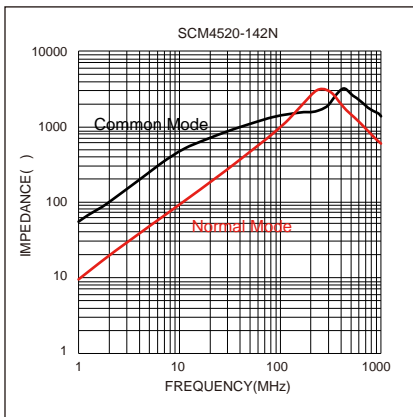
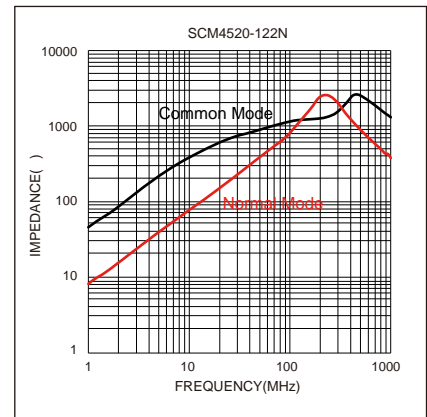
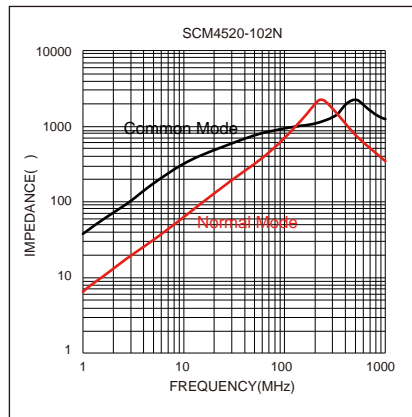
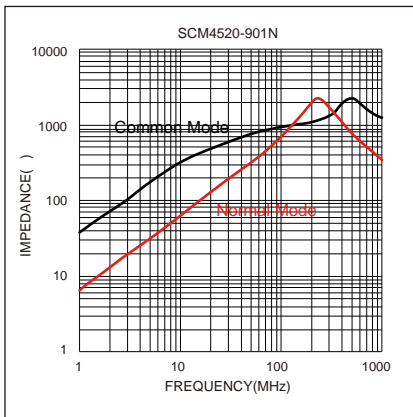
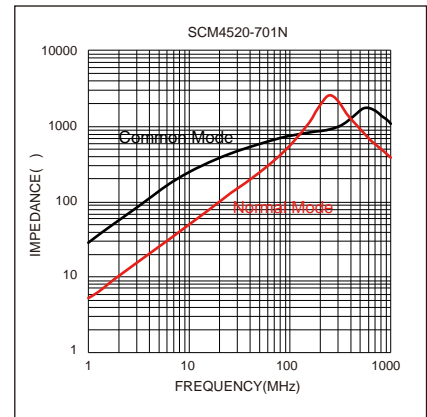
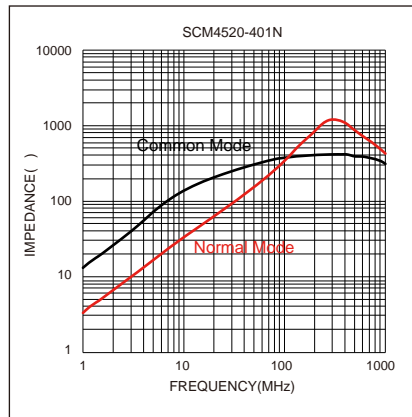
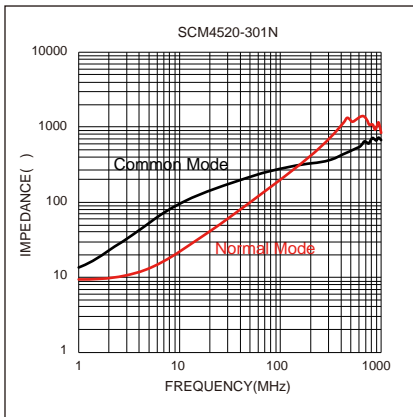
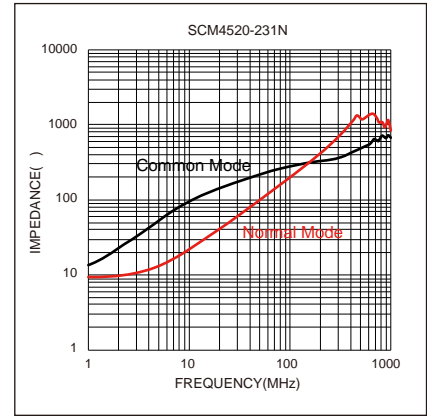
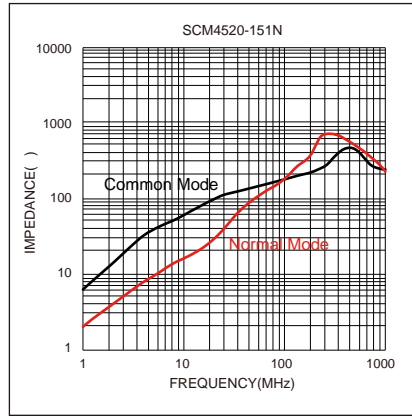
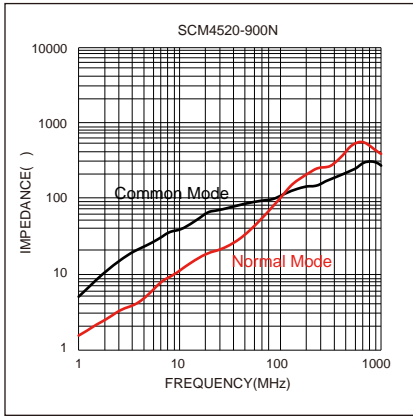
## Land Pattern: [mm]



## Electrical Properties:

|              | ( )  | ( )  | (m ) |     |     | (M ) |
|--------------|------|------|------|-----|-----|------|
| SCM4520-900N | 60   | 90   | 35   | 3.2 | 125 | 10   |
| SCM4520-151N | 90   | 150  | 40   | 3.1 | 125 | 10   |
| SCM4520-231N | 180  | 230  | 45   | 3.0 | 125 | 10   |
| SCM4520-301N | 200  | 300  | 45   | 3.0 | 125 | 10   |
| SCM4520-401N | 300  | 400  | 50   | 2.5 | 125 | 10   |
| SCM4520-701N | 500  | 700  | 59   | 2.2 | 125 | 10   |
| SCM4520-901N | 650  | 900  | 68   | 2.1 | 125 | 10   |
| SCM4520-102N | 800  | 1000 | 68   | 2.1 | 125 | 10   |
| SCM4520-122N | 1000 | 1200 | 74   | 2.0 | 125 | 10   |
| SCM4520-142N | 1200 | 1400 | 81   | 1.9 | 125 | 10   |

# Typical Electrical Characteristics:



## 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.
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