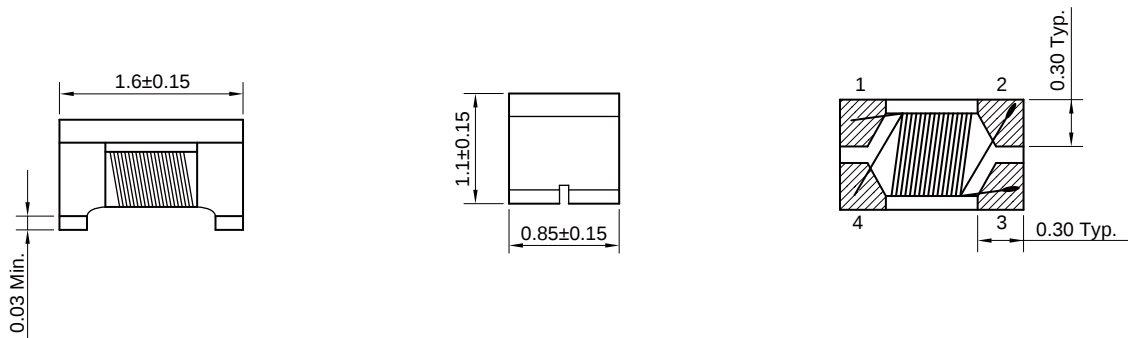


SCM Series  
Common Mode Filter  
Size 1608

DimensionsC1]mm]

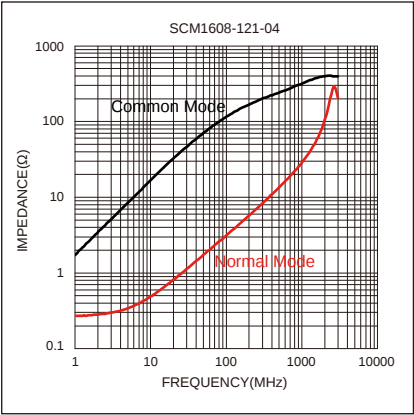
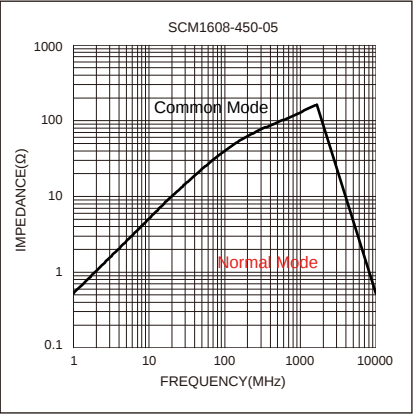
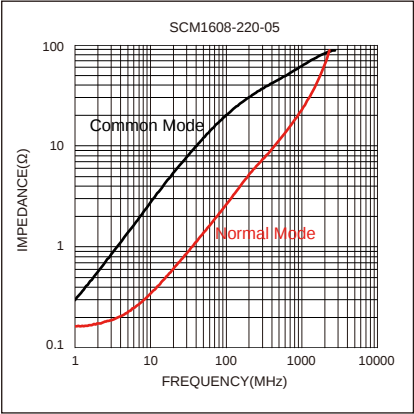


Schematic:

Electrical Properties:

| Part No        | Impedance<br>@ 100 MHz<br>(Ω) | Tolerance | DC Resistance<br>Max.<br>(Ω) | Rated Current<br>Max.<br>(mA) | Rated Volt<br>Max.<br>(V) | Withstand Volt<br>Max.<br>(V) | IR<br>Min.<br>(MΩ) |
|----------------|-------------------------------|-----------|------------------------------|-------------------------------|---------------------------|-------------------------------|--------------------|
| SCM1608-220-05 | 22                            | ±25%      | 0.080                        | 500                           | 50                        | 125                           | 10                 |
| SCM1608-450-05 | 45                            | ±25%      | 0.110                        | 500                           | 50                        | 125                           | 10                 |
| SCM1608-900-05 | 90                            | ±25%      | 0.145                        | 550                           | 50                        | 125                           | 10                 |
| SCM1608-121-04 | 120                           | ±25%      | 0.175                        | 450                           | 50                        | 125                           | 10                 |
| SCM1608-181-05 | 180                           | ±25%      | 0.210                        | 500                           | 50                        | 125                           | 10                 |
| SCM1608-251-04 | 250                           | ±25%      | 0.280                        | 400                           | 50                        | 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.
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