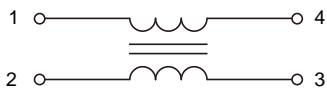


## SMD Common Mode Inductor Size 7060

- Chip common mode filter for large current applications.
  - Low profile design makes it optimal for surface mounting.
  - Operating temperature -40~+125 °C
  - Quantity: 1500PCS
- 
- Power line noise countermeasure for various electronic equipment
  -

Dimensions: [mm]

Schematic:



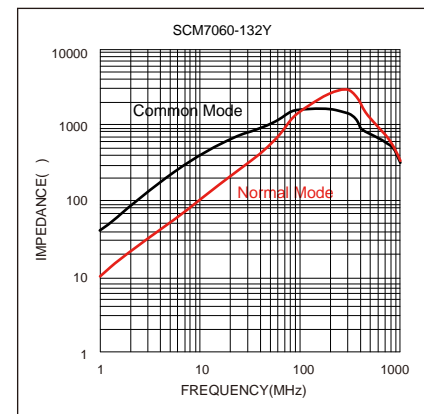
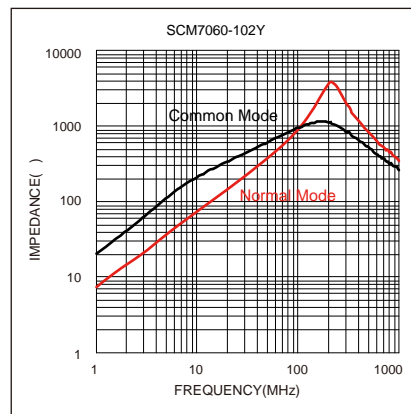
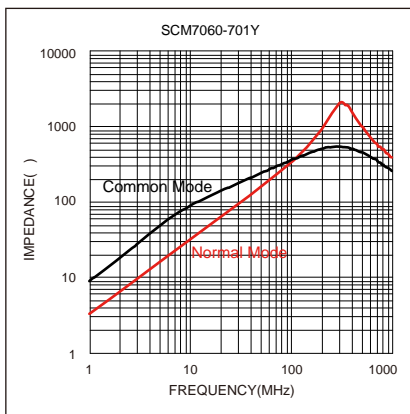
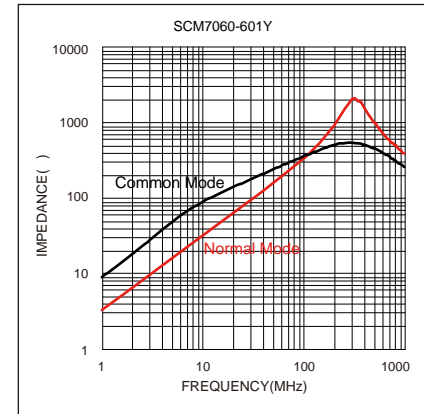
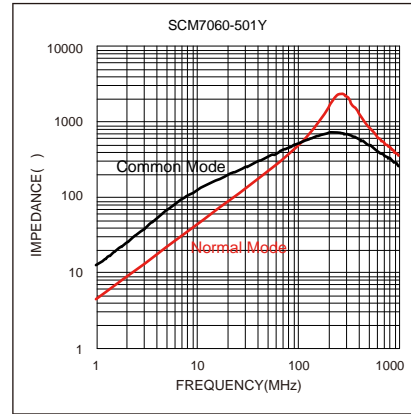
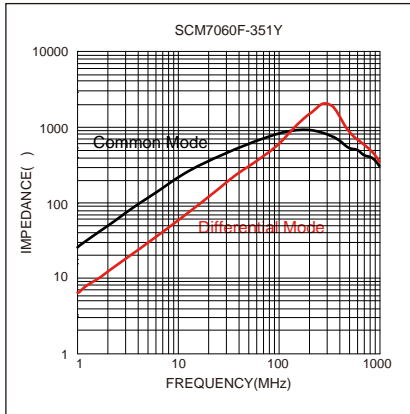
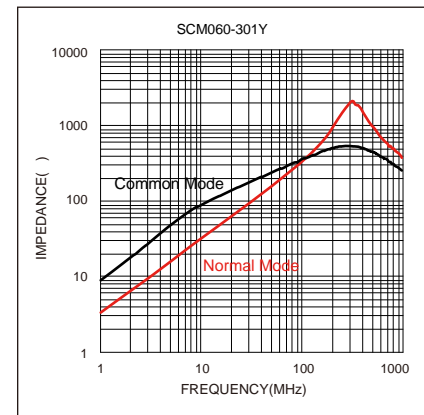
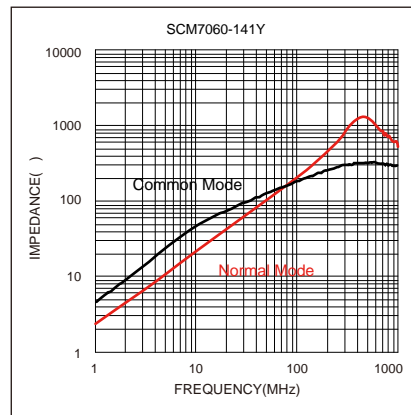
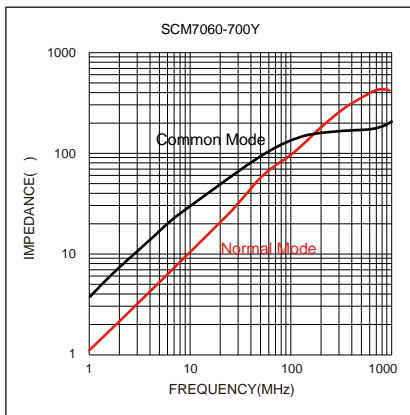
Electrical Properties:

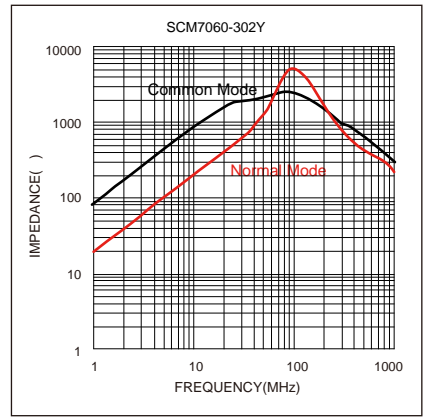
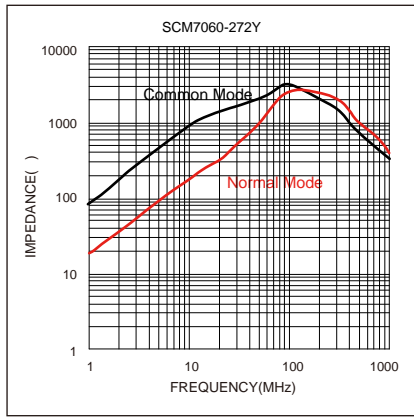
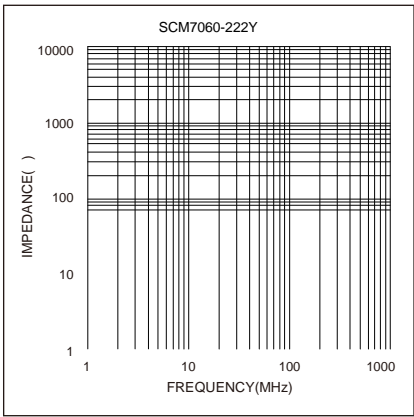
Part No	Impedance @ 100 MHz Min. ( )	Impedance @ 100 MHz Typ. ( )	DC Resistance Max. (m )	Rated Current Max. (A)	Rated Volt Max. (V)	IR Min. (M )
SCM7060-700Y	40	70	5	15	125	10
SCM7060-141Y	100	140	10	9.0	125	10
SCM7060-301Y	225	300	10	5.0	125	10
SCM7060-351Y	275	350	10	5.0	125	10
SCM7060-501Y	400	500	10	5.0	125	10
SCM7060-601Y	500	600	15	4.0	125	10
SCM7060-701Y	500	700	15	4.0	125	10
SCM7060-102Y	800	1000	17	3.0	125	10
SCM7060-132Y	910	1300	21	2.5	125	10
SCM7060-222Y	1400	2200	63	1.2	125	10
SCM7060-272Y	2000	2700	63	1.0	125	10

Part No	Impedance @ 100 MHz Min. ( )	Impedance @ 100 MHz Typ. ( )	DC Resistance Max. (m )	Rated Current Max. (A)	Rated Volt Max. (V)	IR Min. (M )
SCM7060-302Y	2500	3000	75	0.9	125	10
SCM7060-402Y	3300	4000	100	0.8	125	10

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

## 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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