BCMA Series

Common Mode Filters For Automotive Signal Line
Size 4532

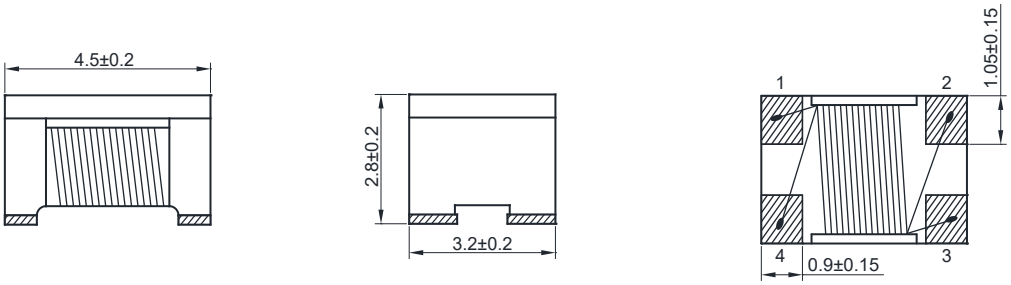
FEATURES

- Impedance variation: Extensive lineup are available for compatibility with various usages.
- Common mode filters for Signal Line.
- Operating temperature range:-55 to +125℃
- AEC-Q200 qualified
- Quantity: 500pcs

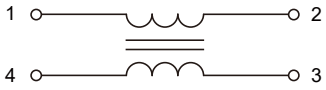
APPLICATION

- Radiated noise suppression for car multimedia interfaces (MOST, USB2.0, IDB-1394, etc.)

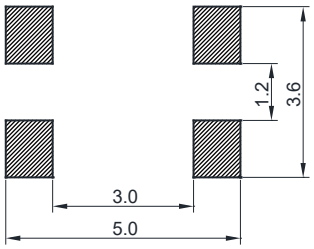
Dimensions: [mm]



Schematic:



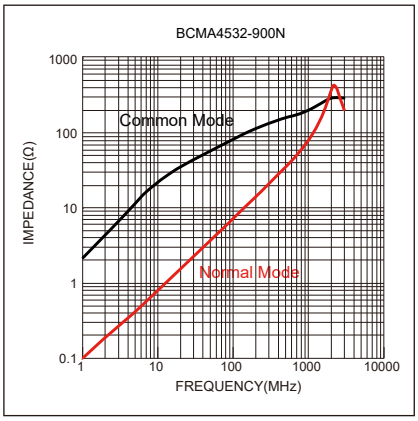
Land Pattern: [mm]

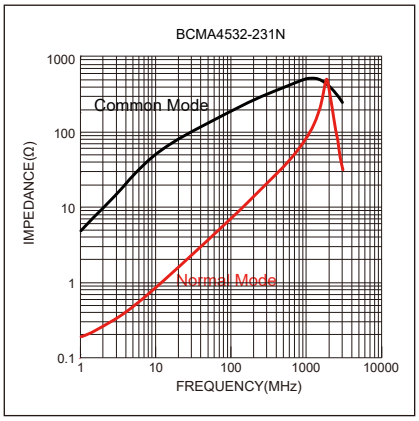


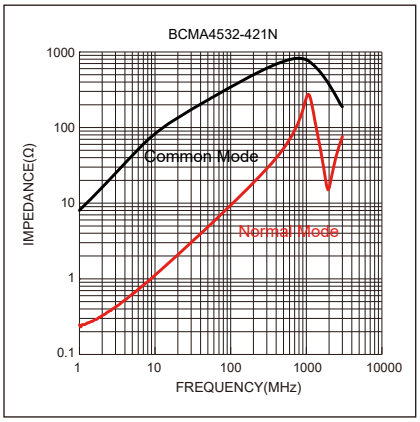
Electrical Properties:

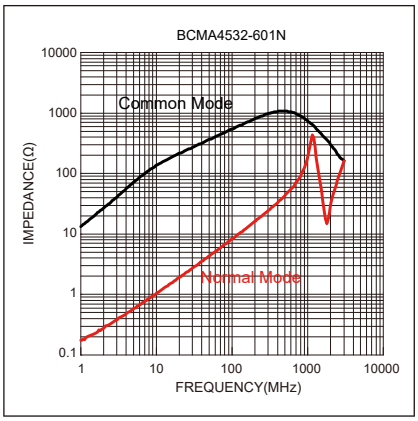
Part No	Impedance @ 100MHz Min. (Ω)	Impedance @ 100MHz Typ. (Ω)	Rated Current Max. (mA)	Rated Volt Max. (Vdc)	Withstand Volt Max. (Vdc)	DC Resistance Max. (Ω)	IR Min. (Ω)
BCMA4532-900N	68	90	4000	50	125	0.050	10M
BCMA4532-231N	173	230	3500	50	125	0.050	10M
BCMA4532-421N	300	420	3200	50	125	0.055	10M
BCMA4532-601N	450	600	2500	50	125	0.060	10M
BCMA4532-901N	650	900	2300	50	125	0.070	10M
BCMA4532-142N	1000	1400	2000	50	125	0.100	10M
BCMA4532-282N	2100	2800	900	50	125	0.350	10M

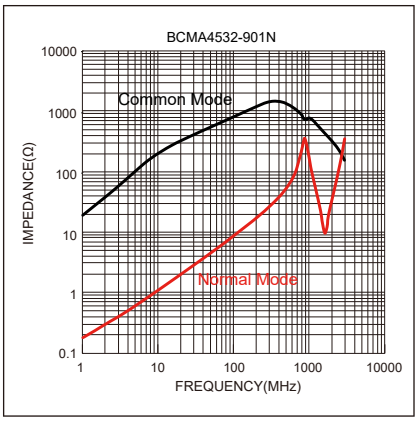
Typical Electrical Characteristics:

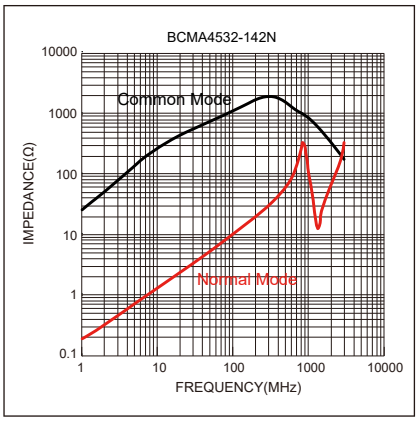


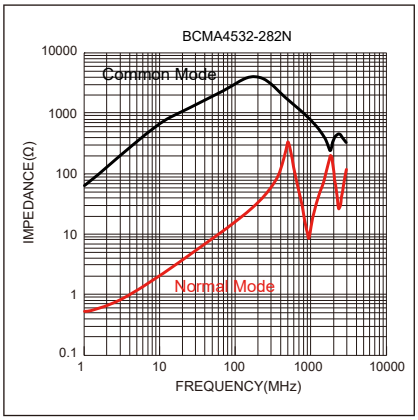




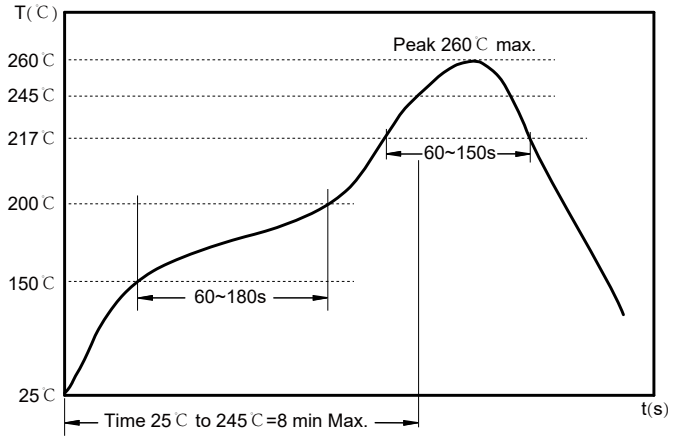








Soldering Reflow:



Preheat condition: 150 ~200℃/ 60~180 sec.

Allowed time above 217℃: 60~150 sec.

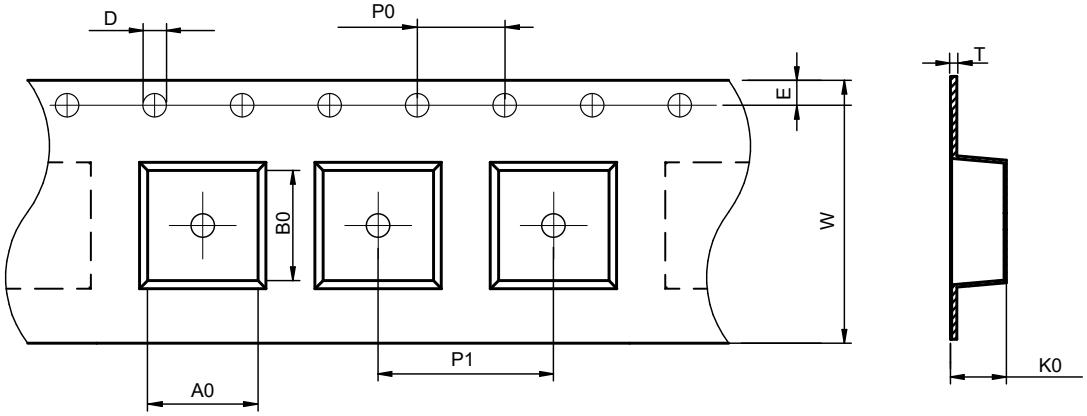
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 3x max.

Packaging Information:

Tape Dimension:

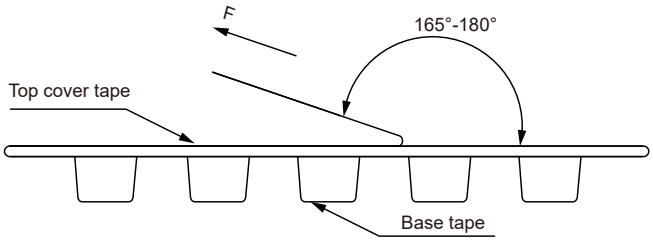


A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
3.6±0.1	4.9±0.1	1.5±0.1	4.0±0.1	8.0±0.1	12.0±0.3	3.0±0.1	1.75±0.1	0.26±0.05

Product Marking:

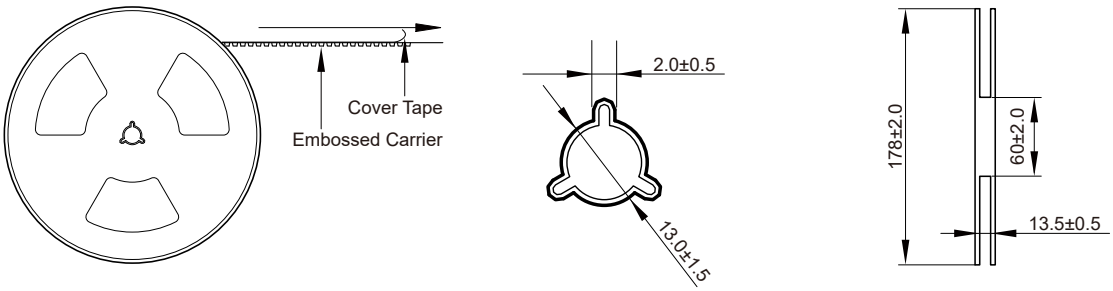
Marking	No printing

Peel force of top cover tape:

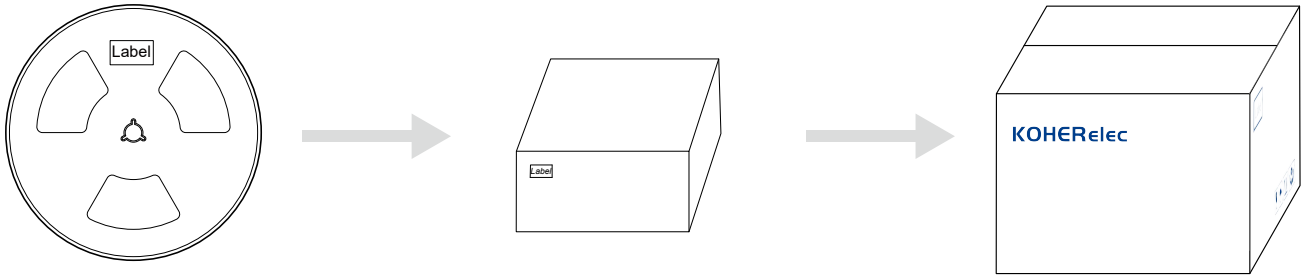


The peel force of top cover tape shall be between 0.15 to 0.78 N

Reel Dimension：[mm]



Packaging Quantity:



500 Pcs/Reel

4 Reel /Inner box(2K Pcs)

8 Inner box/Carton box(16K 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.