BCMA Series

Common Mode Filters For Automotive Signal Line
Size 2012

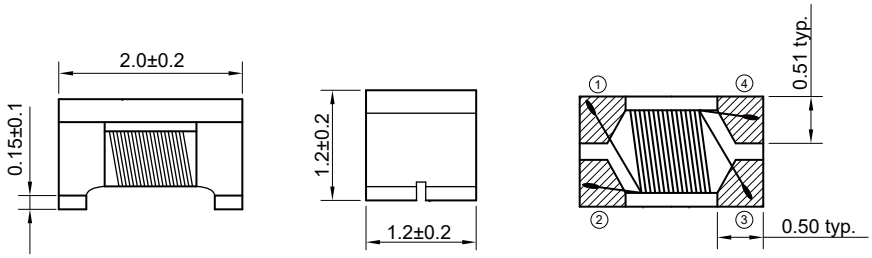
FEATURES

- Impedance variation: Extensive lineup are available for compatibility with various usages
- Common mode filters for Signal Line
- Operating temperature range:-40 to +125℃
- AEC-Q200 qualified
- Quantity: 2000pcs

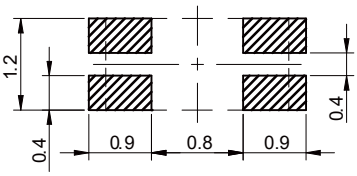
APPLICATION

- Radiated noise suppression for car multimedia interfaces (MOST, IDB-1394, LVDS, etc.)
- USB Highspeed Signal Line

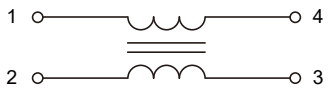
Dimensions: [mm]



Land Pattern: [mm]



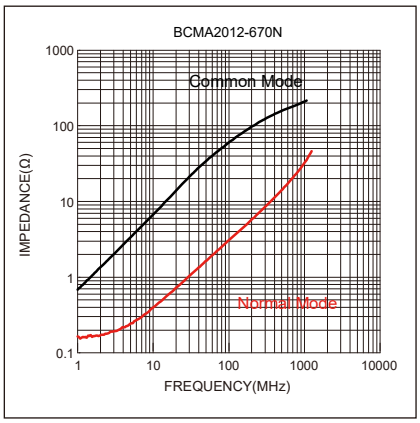
Schematic:

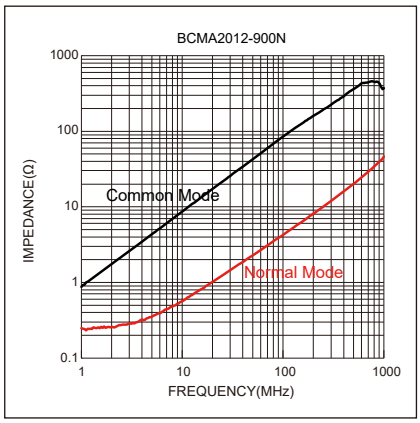


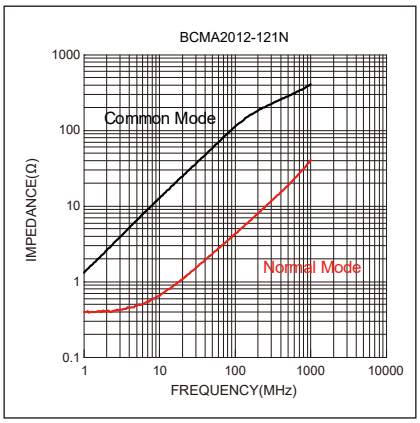
Electrical Properties:

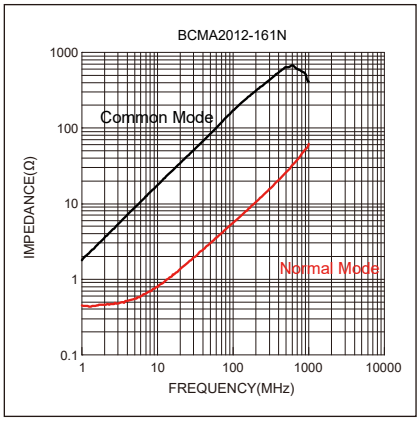
Part No	Z @ 100 MHz (Ω)	Tol	I_R Max. (mA)	R_{DC} Max. (Ω)	V_{DC} Max. (Volts)	IR Min. (Ω)
BCMA2012-670N	67	±25%	400	0.25	50	10M
BCMA2012-900N	90	±25%	400	0.30	50	10M
BCMA2012-121N	120	±25%	400	0.30	50	10M
BCMA2012-161N	160	±25%	350	0.35	50	10M
BCMA2012-181N	180	±25%	350	0.35	50	10M
BCMA2012-201N	200	±25%	300	0.40	50	10M
BCMA2012-221N	220	±25%	300	0.40	50	10M
BCMA2012-261N	260	±25%	300	0.40	50	10M
BCMA2012-361N	360	±25%	300	0.50	50	10M
BCMA2012-601N	600	±25%	300	0.88	50	10M
BCMA2012-801N	800	±25%	300	0.88	50	10M
BCMA2012-102N	1000	±25%	100	1.30	50	10M

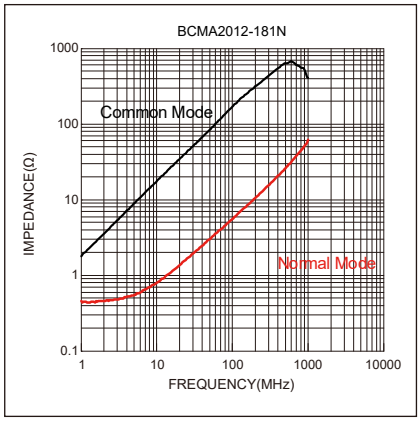
Typical Electrical Characteristics:

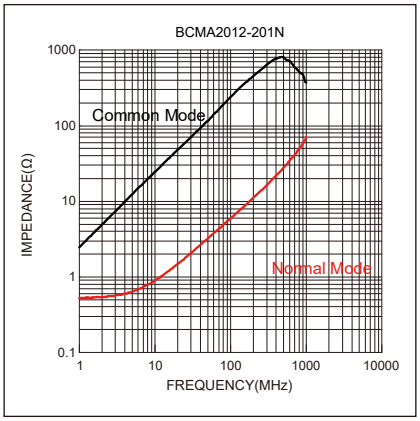


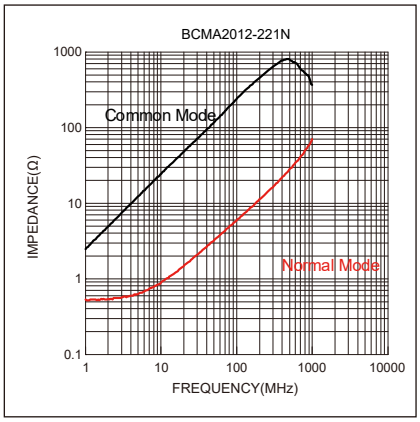


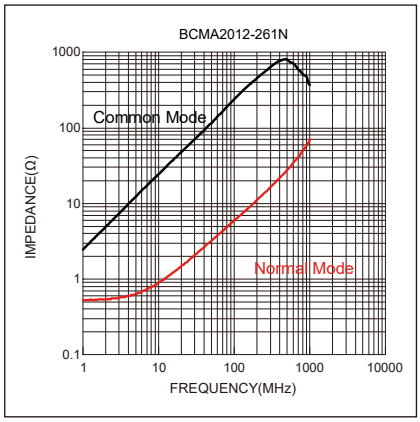


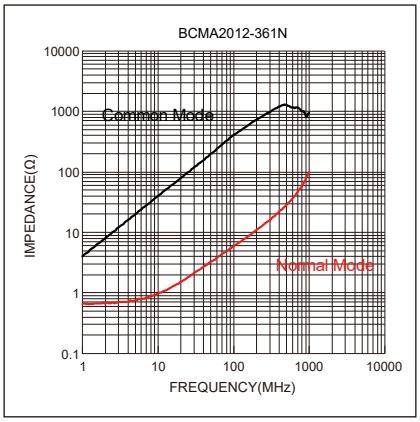


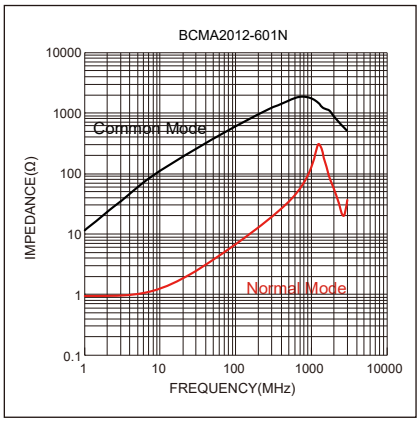


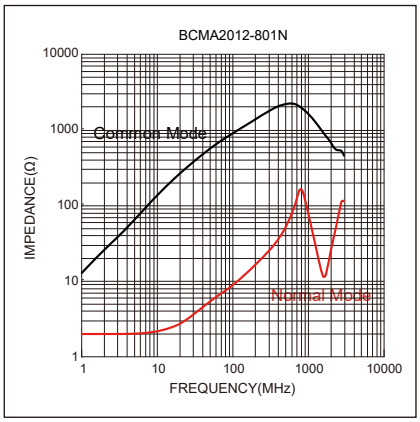


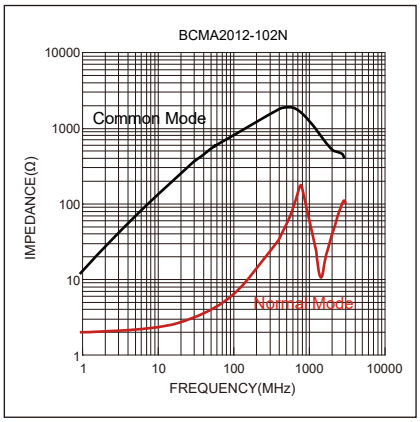




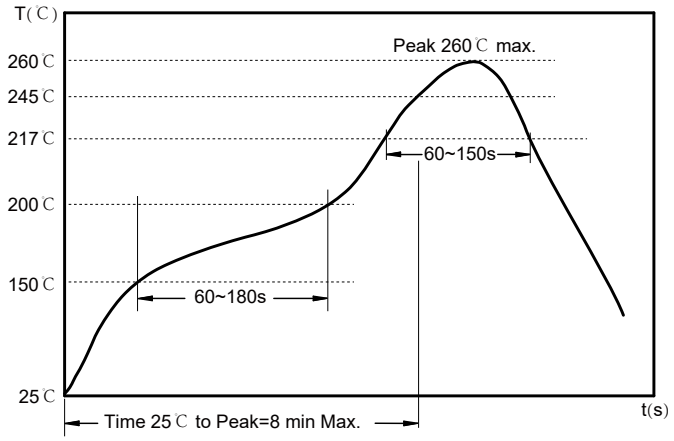








Soldering Reflow:



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

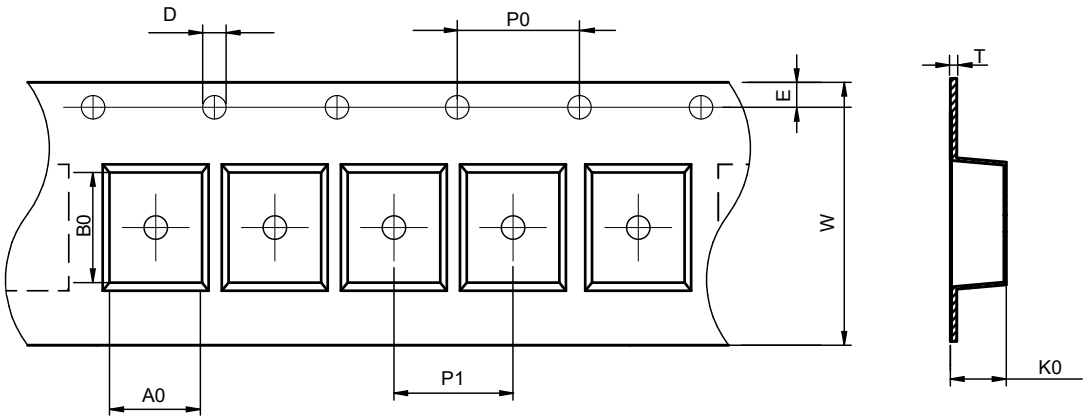
Allowed time above 217℃: 60~150 sec.

Max temperature: 260℃.

Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension:

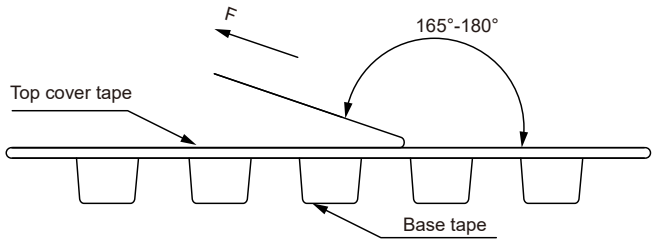


Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
BCMA2012	1.50±0.1	2.35±0.1	1.5±0.1	4.0±0.1	4.0±0.1	8.0±0.3	1.45±0.1	1.75±0.1	0.22±0.05

Product Marking:

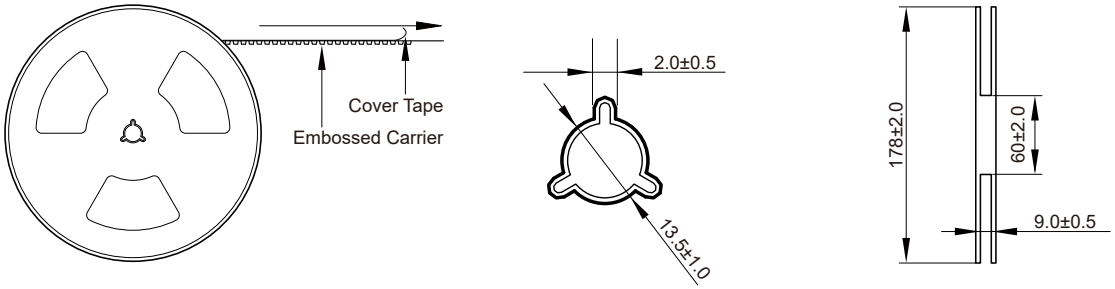
Marking	No printing

Peel force of top cover tape:

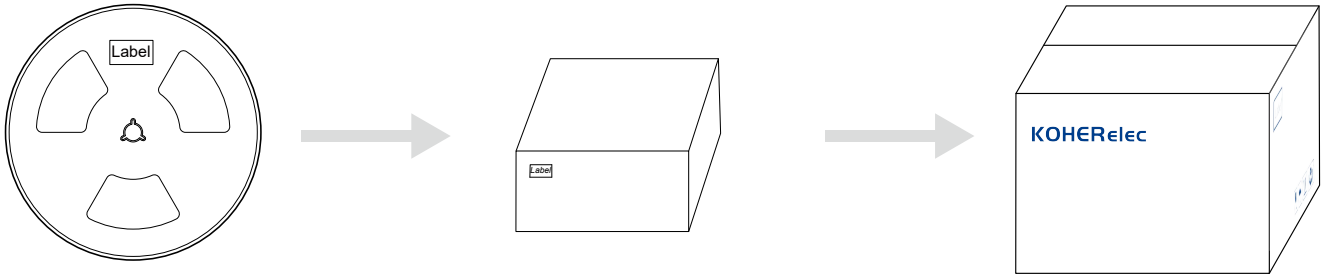


The peel force of top cover tape shall be between 0.14 to 0.78 N

Reel Dimension：[mm]



Packaging Quantity:



2000 Pcs/Reel

5 Reel /Inner box(10K Pcs)

8 Inner box/Carton box(80K 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.