

# BCMA Series

## Common Mode Filters For Automotive Power Line

### Size 9070



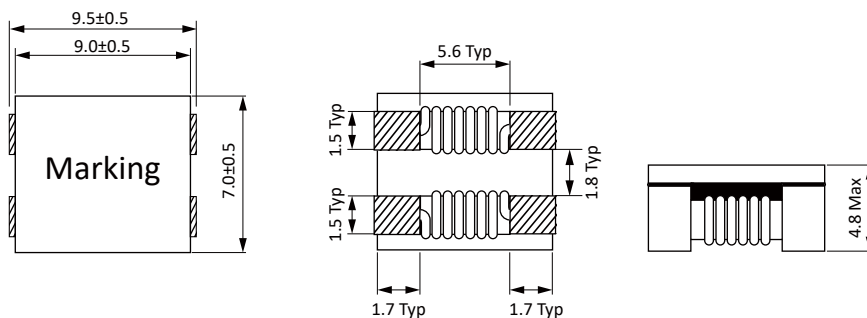
#### FEATURES

- Exclusive square type closed magnetic core designed as an exclusive core is used, so it can be small while maintaining the same features.
- Low profile design makes it optimal for surface mounting.
- Excellent impedance characteristics, making it great for suppressing common mode noise.
- Maximum 15A can be used in 125°C environments.
- Operating temperature range: -40 to +125°C(including self-temperature rise)
- AEC-Q200 qualified
- Quantity: 800pcs

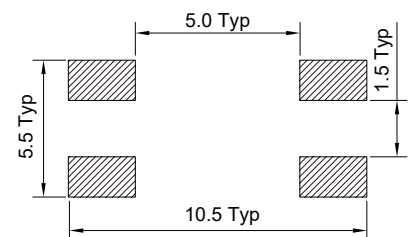
#### APPLICATIONS

- Measures against common mode noise in power lines for various DC power lines, multimedia devices, and various electronic devices

#### Dimensions: [mm]



#### Land Pattern: [mm]

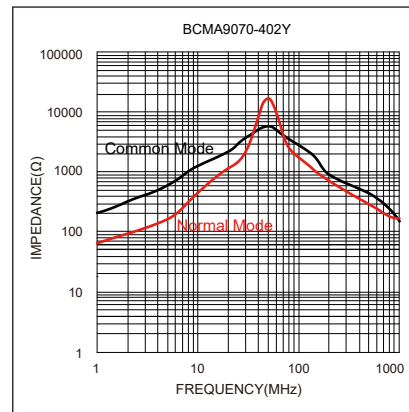
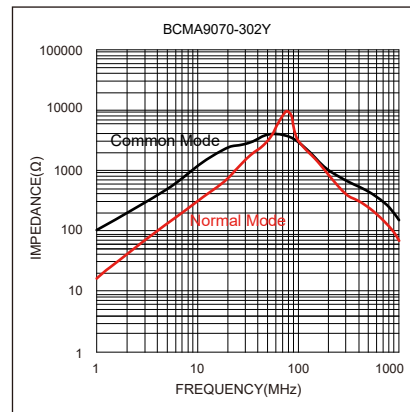
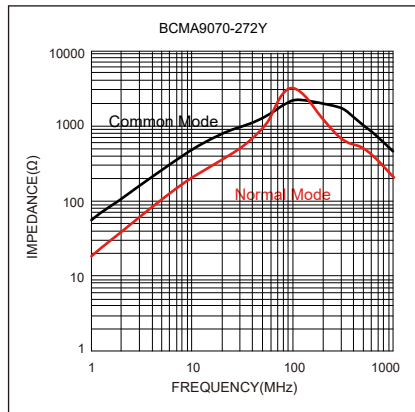
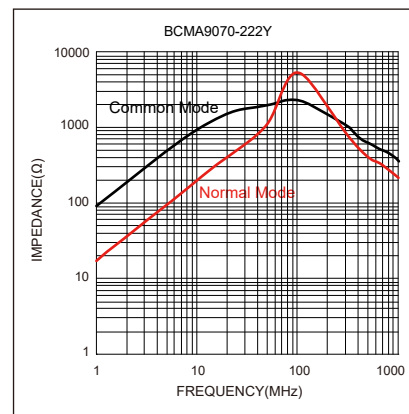
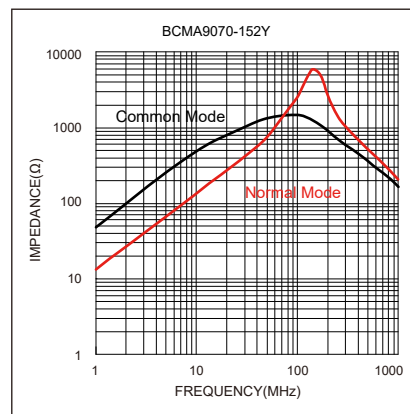
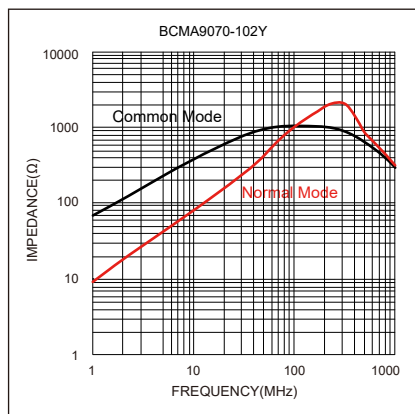
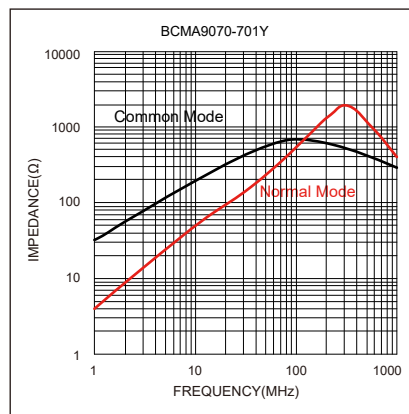
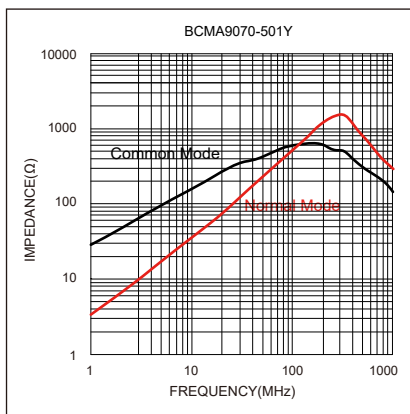
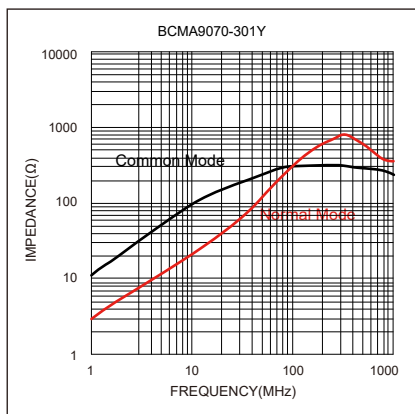


#### Electrical Properties:

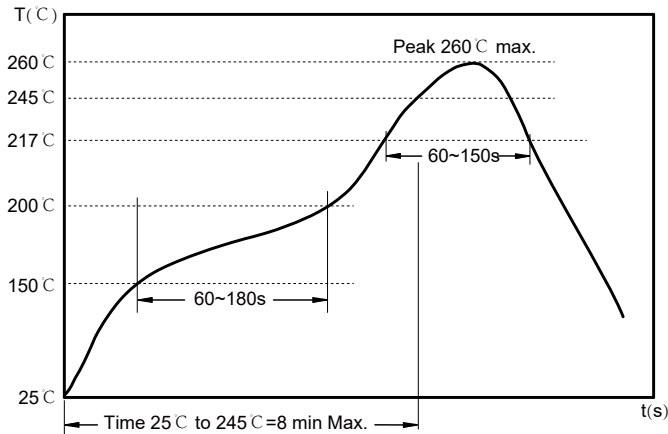
Part No	Impedance Min. (Ω)	Impedance Typ. (Ω)	Test Frequency @0.1V	I <sub>R</sub> Max. (A)	R <sub>DC</sub> Max. (mΩ)	V <sub>DC</sub> Max. (Volts)	IR Min. (MΩ)
BCMA9070-301Y	225	300	100MHz	6.0	6	80	10
BCMA9070-501Y	450	500	100MHz	5.5	8	80	10
BCMA9070-701Y	500	700	100MHz	5.0	10	80	10
BCMA9070-102Y	750	1000	100MHz	4.0	13	80	10
BCMA9070-152Y	1000	1500	100MHz	4.5	15	80	10
BCMA9070-222Y	1700	2200	20~50MHz	3.0	50	80	10
BCMA9070-272Y	2000	2700	20~50MHz	3.5	32	80	10
BCMA9070-302Y	2500	3000	20~50MHz	1.9	85	80	10
BCMA9070-402Y	3300	4000	20~50MHz	1.8	100	80	10

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

Typical Electrical Characteristics:



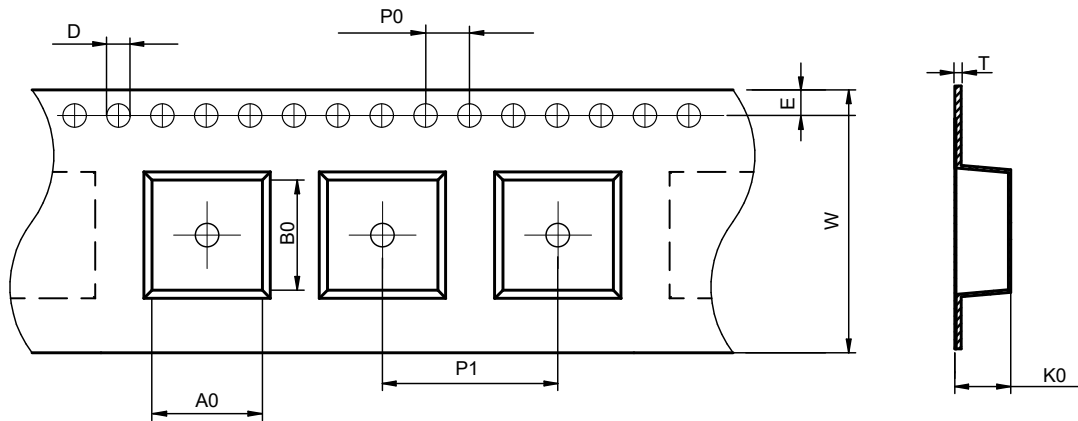
### Soldering Reflow:



Preheat condition: 150 ~200°C / 60~180 sec.  
 Allowed time above 217°C: 60~150 sec.  
 Max temperature: 260°C.  
 Max time at max temperature: 10 sec.  
 Allowed Reflow time: 3x max.

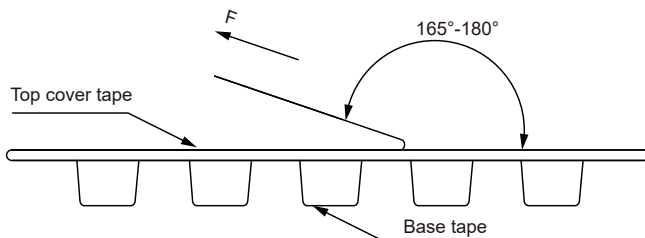
### Packaging Information:

#### Tape Dimension :



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
BCMA9070	7.6±0.1	9.60±0.1	1.5±0.1	4.0±0.1	16.0±0.1	24.0±0.3	5.10±0.1	1.75±0.1	0.35±0.05

#### Peel force of top cover tape:

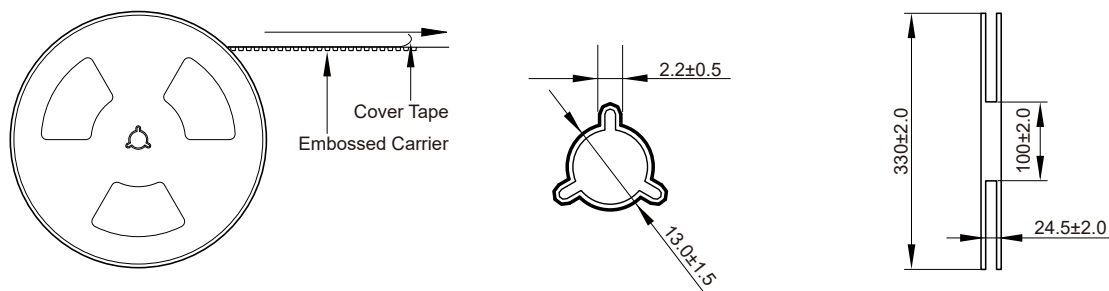


The peel force of top cover tape shall be between 0.10 to 1.17 N

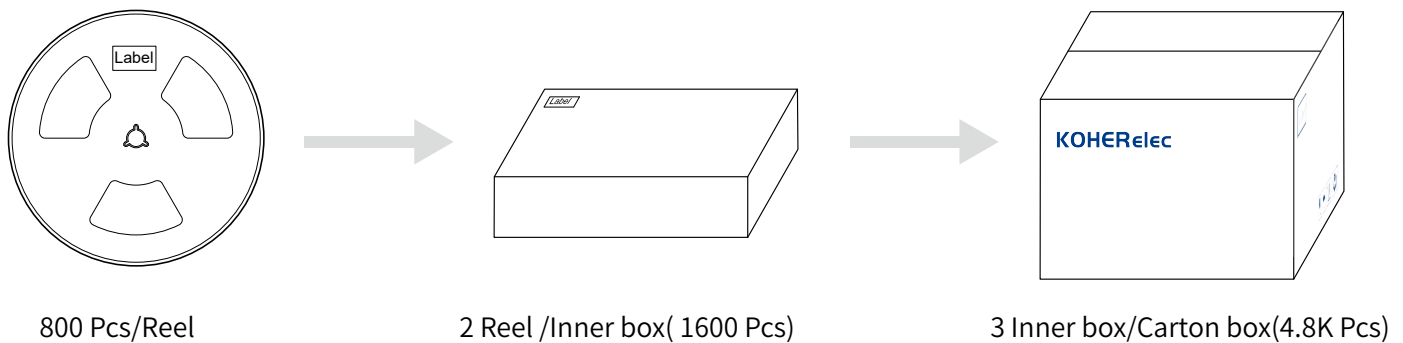
#### Product Marking:

Marking	Printing (Impedance)
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Reel Dimension: [mm]



Packaging Quantity:



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.