

# BCMA Series

## Common Modas Filters For Automotive Signal Line

### Size 1210

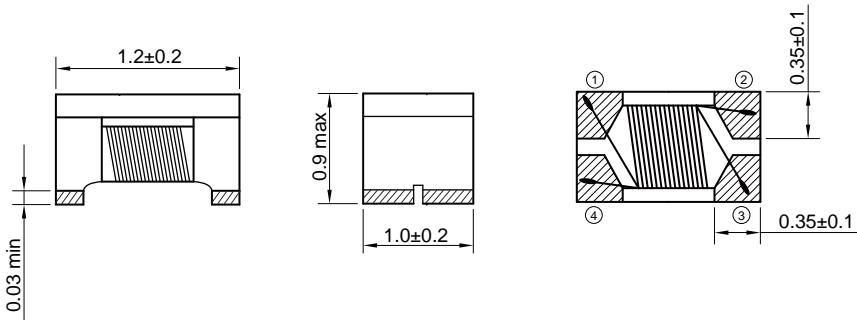
#### FEATURES

- Impedance variation: Extensive lineup are available for compatibility with various usages
- Common mode filters for Signal Line
- Operating temperature range: -40 to +125°C
- Compliant with AEC-Q200
- Quantity: 3000pcs

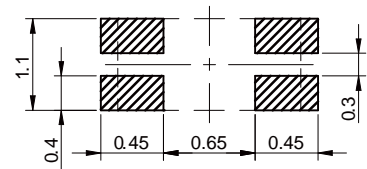
#### APPLICATION

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

#### Dimensions: [mm]



#### Land Pattern: [mm]

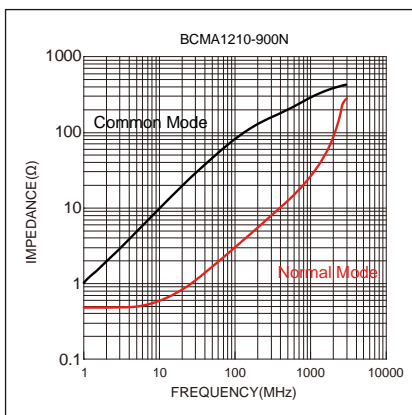


#### Electrical Properties:

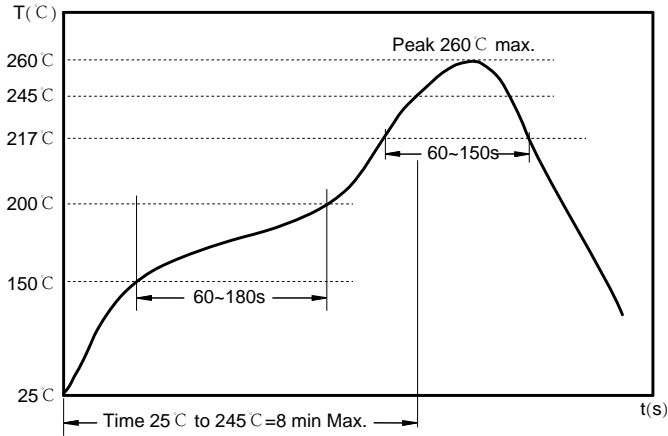
| Part No       | Z @ 100 MHz | Tol  | I <sub>R</sub> | R <sub>DC</sub> Max. | Rated Volt. (V) | IR Min. |
|---------------|-------------|------|----------------|----------------------|-----------------|---------|
| BCMA1210-900N | 90          | ±25% | 200            | 0.40                 | 50              | 10M     |

I<sub>R</sub> referring to 20K self-heating above ambient temperature

#### Typical Electrical Characteristics:



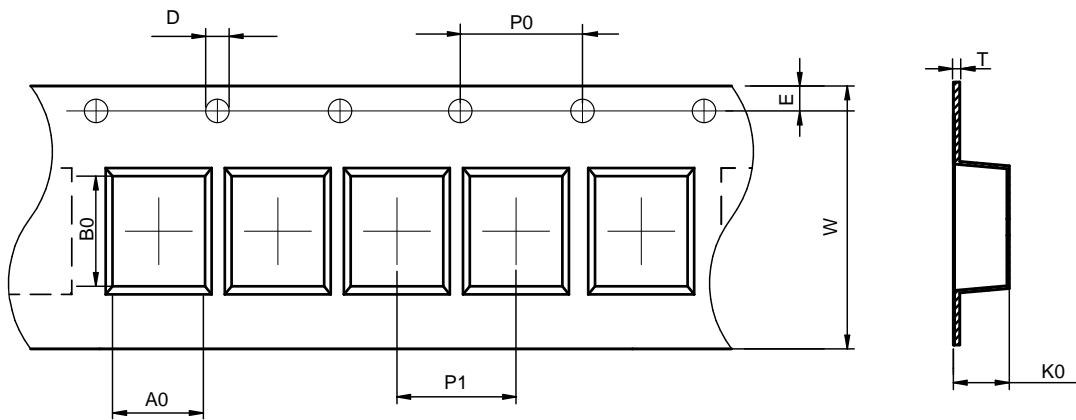
## Soldering Reflow:



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)    |
|----------|----------|----------|---------|---------|---------|---------|----------|----------|-----------|
| BCMA1210 | 1.12±0.1 | 1.40±0.1 | 1.5±0.1 | 4.0±0.1 | 4.0±0.1 | 8.0±0.3 | 1.05±0.1 | 1.75±0.1 | 0.22±0.05 |

### Product Marking:

|         |             |
|---------|-------------|
| Marking | No printing |
|---------|-------------|

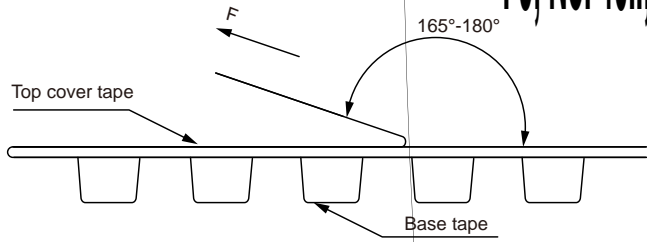


**Label/KOHER Electronics**

**F9, No. 40..., Huaning Rd, Minhang District, Shanghai**

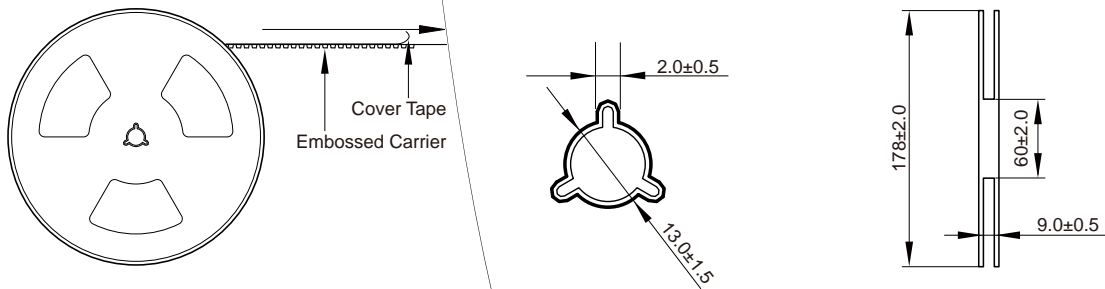
**0219-76.1.26 Contact@kohergroup.com**

Peel force of top cover tape:

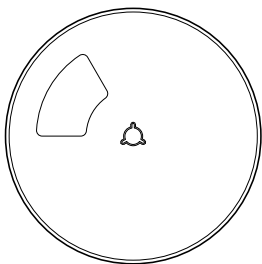


The peel force of top cover tape shall be between 0.15 to 0.78 N

Reel Dimension: [mm]



Packaging Quantity:



3000 Pcs/Reel

5 Reel /Inner box( 15K Pcs)

8 Inner box/Carton box(120K 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.