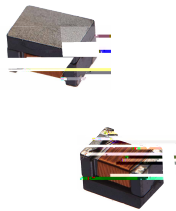


# ACMA Series

## Common Mode Filters For Automotive Signal Line

### Size 4532



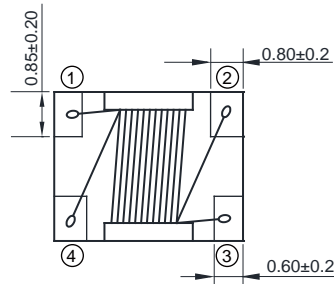
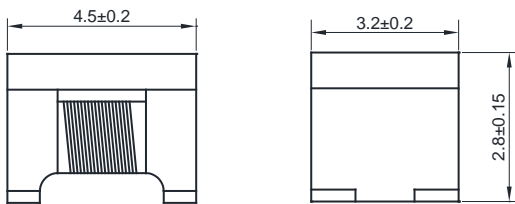
#### FEATURES

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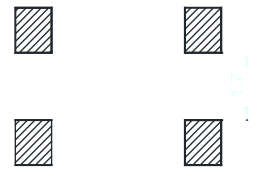
#### APPLICATION

Ethernet system.

#### Dimensions: [mm]

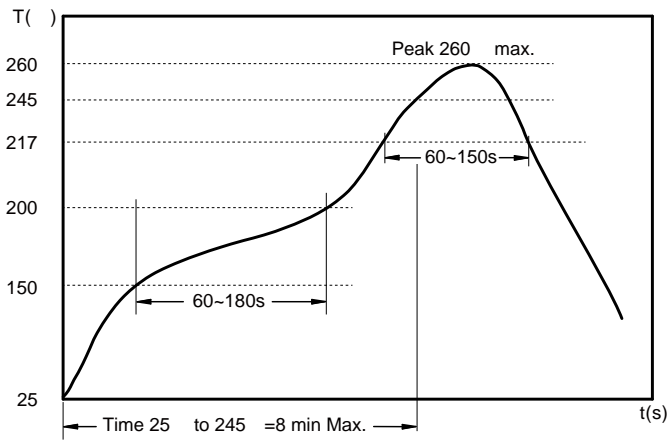


#### Land Pattern: [mm]



| art No           | Inductance @ 100KHz/0.1V (μH) | Tolerance | Rated Current Max. (mA) | DC Resistance Max. ( ) | Rated Voltage Max. (V) | Min. (M ) | Applica on                    |
|------------------|-------------------------------|-----------|-------------------------|------------------------|------------------------|-----------|-------------------------------|
| ACMA4532ETH-201Y | 200                           | +60/-20%  | 100                     | 4.5                    | 50                     | 10        | Ethernet 100 Base-T1(100Mbps) |

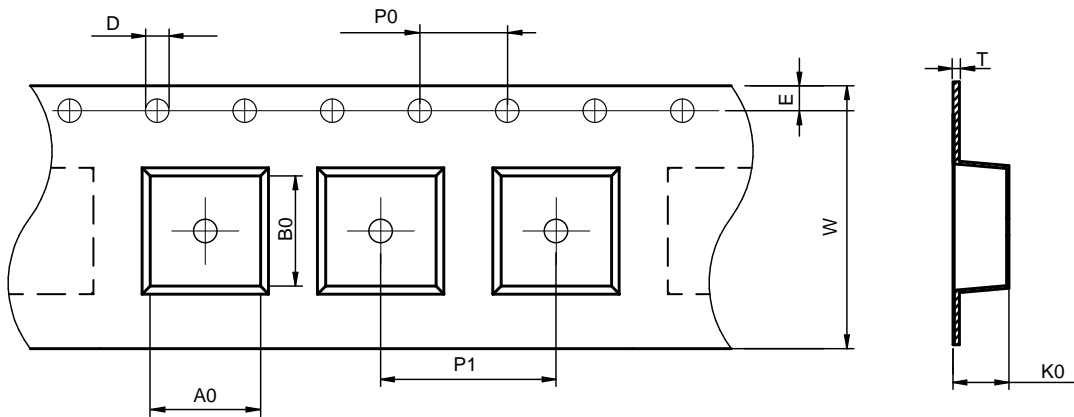
## Soldering Reflow:



Preheat condition: 150 ~200 / 60~180 sec.  
 Allowed time above 217 : 60~150 sec.  
 Max temperature: 260 .  
 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)    |
|-------------|----------|----------|---------|---------|---------|----------|---------|----------|-----------|
| ACMA4532ETH | 3.60±0.1 | 4.90±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 |
|---------|-------------|



## 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.