



- Common mode filters for automotive Ethernet 10BASE-T1S.
- This product achieves the following performance:
  - Tr
  - TSR to T
  - BB
- 
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- CAN-FD.
- Ethernet system.

Dimensions: [mm]

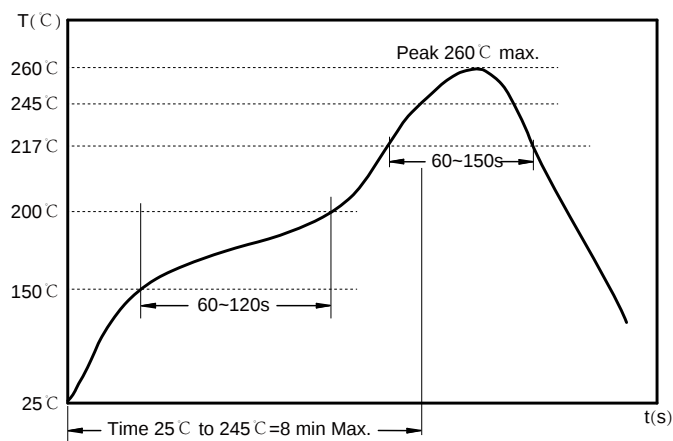


Land Pattern: [mm]

| Part No          | Inductance<br>@100KHz/0.1V | Tolerance | Rated Current<br>Max. | DC Resistance<br>Max. | Rated Voltage<br>Max. |  |
|------------------|----------------------------|-----------|-----------------------|-----------------------|-----------------------|--|
| ACMA3225ETH-131Y | 130                        |           |                       |                       |                       |  |
| ACMA3225ETH-241Y | 240                        |           |                       |                       |                       |  |



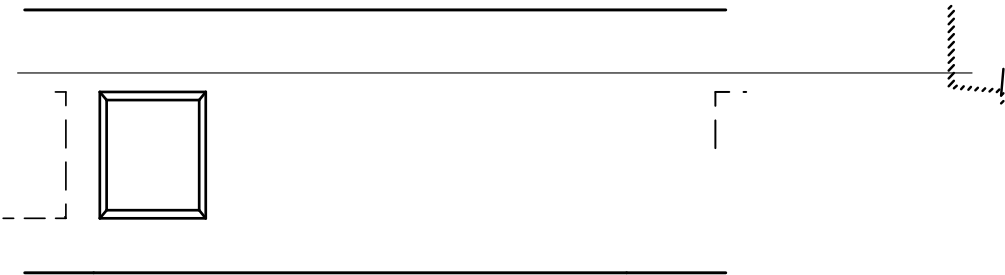
Soldering Reflow:



Preheat condition: 150 ~200 °C / 60~120 sec.  
Allowed time above 217 °C : 60~150 sec.  
Max temperature: 260 °C .  
Allowed Reflow time: 3x max.

Packaging Information:

Tape Dimension :



| Series      | A0<br>(mm) | B0<br>(mm) | D<br>(mm) | P0<br>(mm) | P1<br>(mm) | W<br>(mm) | K0<br>(mm) | E<br>(mm) | T<br>(mm) |
|-------------|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| ACMA3225ETH | 2.88±0.1   | 3.72±0.1   | 1.5±0.1   | 4.0±0.1    | 4.0±0.1    | 8.0±0.3   | 2.5±0.1    | 1.75±0.1  | 0.26±0.05 |





## 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.