

## TLAR Series

### Molding Power Inductors

### Size 100760



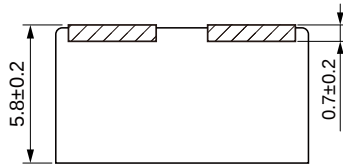
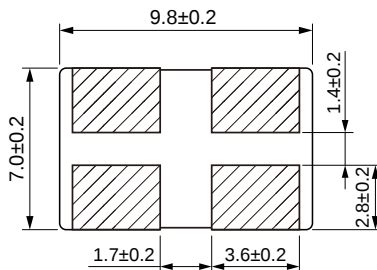
#### FEATURES

- Compliant for 100% Lead(Pb)-Free and RoHS.
- Higher current carrying Capacity, lower DCR, and more efficiency.
- Operating temperature: -55 to +125 °C(Including self - temperature rise).
- Quantity: 500PCS

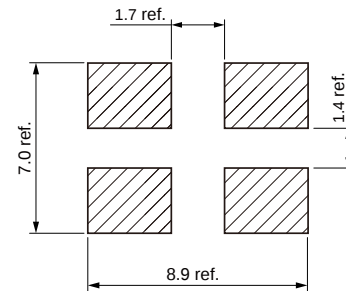
#### APPLICATION

- AI Servers, Data Centers, GPU/AI Accelerators.
- Desktop Motherboards, CPU/GPU Power Delivery.
- Multiphase VRM, High-current DC-DC Converters.
- Networking Equipment, Communication Infrastructure.

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

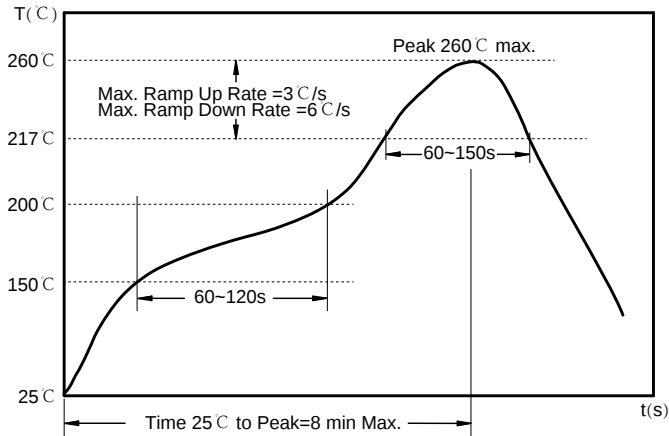
| Part No            | OCL | Inductance<br>@ 100KHz/1V<br>(μH) | DC Resistance<br>(mΩ) |      | Temperature<br>Rise Current<br>(A) |     | Saturation<br>Current<br>(A) |     | Kps<br>Typ. |
|--------------------|-----|-----------------------------------|-----------------------|------|------------------------------------|-----|------------------------------|-----|-------------|
|                    |     |                                   | Typ                   | Max  | Typ                                | Max | Typ                          | Max |             |
| TLAR100760-85NM-02 | 1   | 85±20%                            | 0.14                  | 0.16 | 68                                 | 58  | 88                           | 75  | 0.05        |
|                    | 2   | 85±20%                            | 0.14                  | 0.16 | 68                                 | 58  | 88                           | 75  | 0.05        |

All test data is referenced to 25 °C ambient.

Saturation Current will cause L0 to drop approximately 30%.

Temperature Rise Current: The actual value of DC current when the temperature rise is ΔT=40 °C.

## Soldering Reflow:



Preheat condition: 150 ~200 °C/ 60~120 sec.

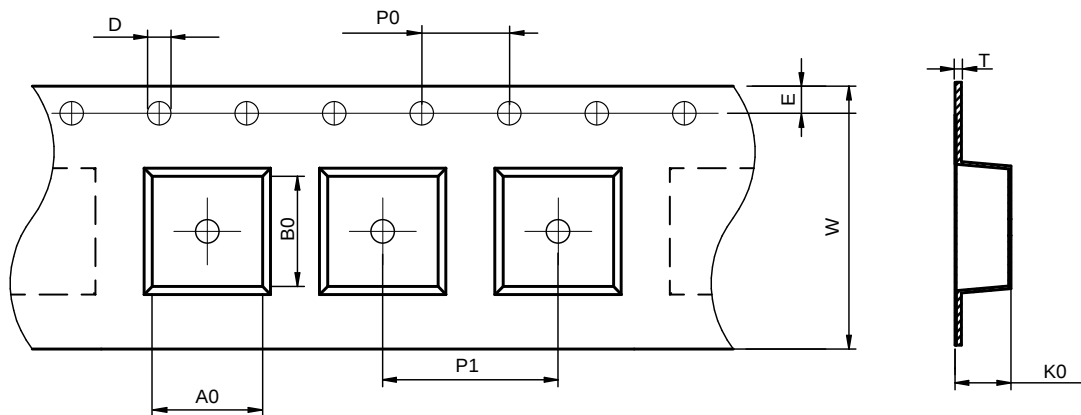
Allowed time above 217 °C: 60~150 sec.

Max temperature: 260 °C.

Time within 5 °C of actual Peak Temperature: 30 max. sec.

## Packaging Information:

### Tape Dimension:



| 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) |
|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| 7.5±0.15   | 10.3±0.15  | 1.5±0.1   | 4.0±0.1    | 16.0±0.1   | 24.0±0.3  | 6.4±0.1    | 1.75±0.1  | 0.45±0.1  |

## Product Marking:

|         |                       |
|---------|-----------------------|
| Marking | Printing (Inductance) |
|---------|-----------------------|

Reel Dimension: [mm]

## 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.