

# TLAR Series

## Molding Power Inductors

### Size 100760



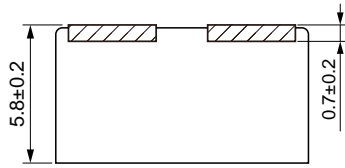
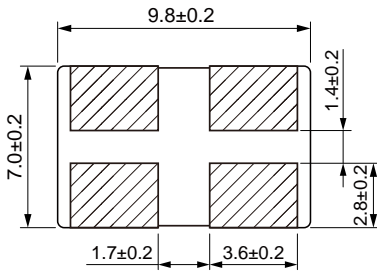
#### FEATURES

- 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

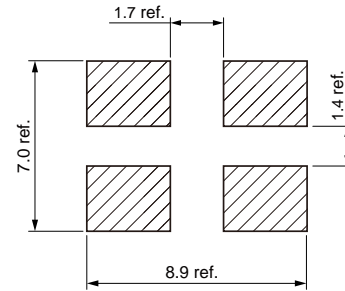
#### APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

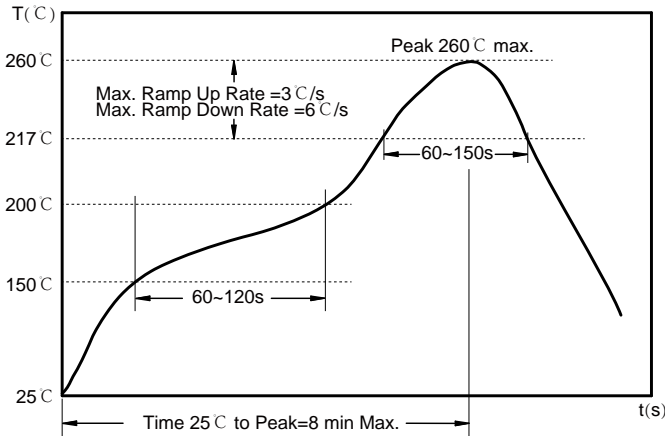
Part No	OCL	Inductance @ 100KHz/1V (μH)	DC Resistance (mΩ)		Temperature Rise Current (A)		Saturation Current (A)		Kps Typ.
			Typ	Max	Typ	Max	Typ	Max	
TLAR100760-85NM-02	1	85±20%	0.14	0.16	68	58	88	75	0.05
	2	85±20%	0.14	0.16	68	58	88	75	0.05

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.

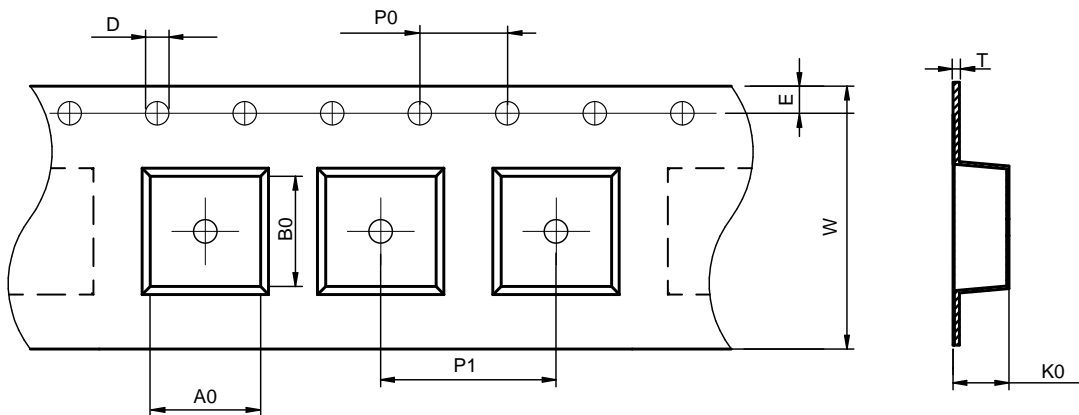
Allowed time above 217 °C: 60~150 sec.

Max temperature: 260 °C.

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

## Packaging Information:

### Tape Dimension:



A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (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)
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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.