

TLVR Series

Molding Power Inductors

Size 110475



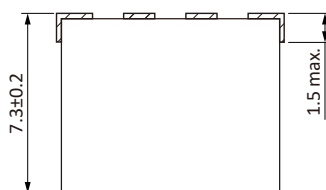
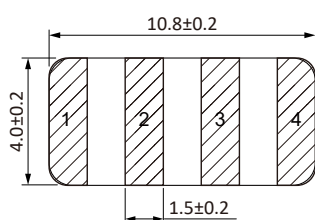
FEATURES

- 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

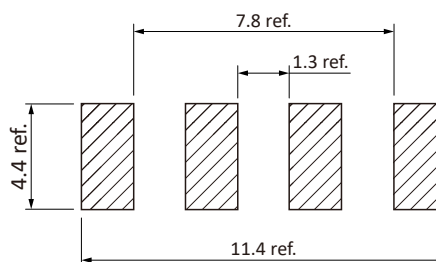
APPLICATION

- 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.

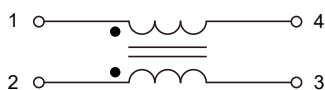
Dimensions: [mm]



Land Pattern: [mm]



Schematic:



Electrical Properties:

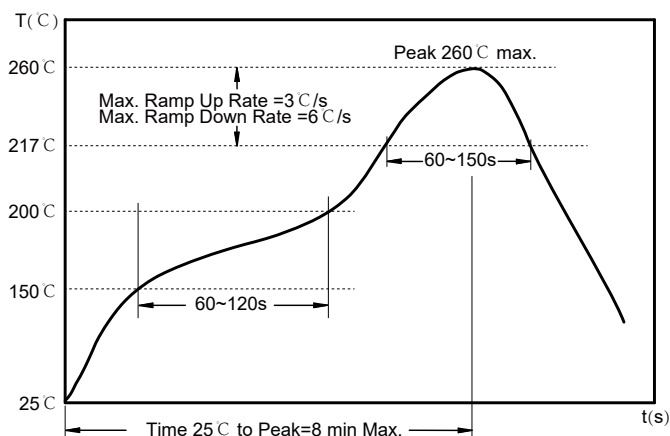
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	DC Resistance 1-4 (mΩ)		DC Resistance 2-3 (mΩ)		Temperature Rise Current 1-4 (A)		Temperature Rise Current 2-3 (A)		Saturation Current 1-4 (A)		Kps Typ.
			Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
TLVR110475-80NN-02	0.08	±30%	0.13	0.16	0.45	0.6	69	62	37	32	120	105	0.9

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 $\Delta T=40\text{ }^{\circ}\text{C}$.

Soldering Reflow:



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

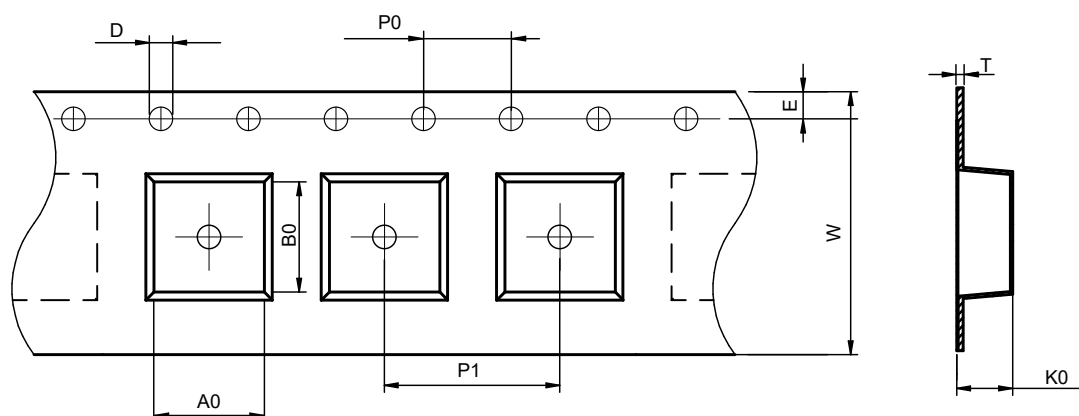
Allowed time above 217 °C: 60~150 sec.

Max temperature: 260 °C.

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

Packaging Information:

Tape Dimension:

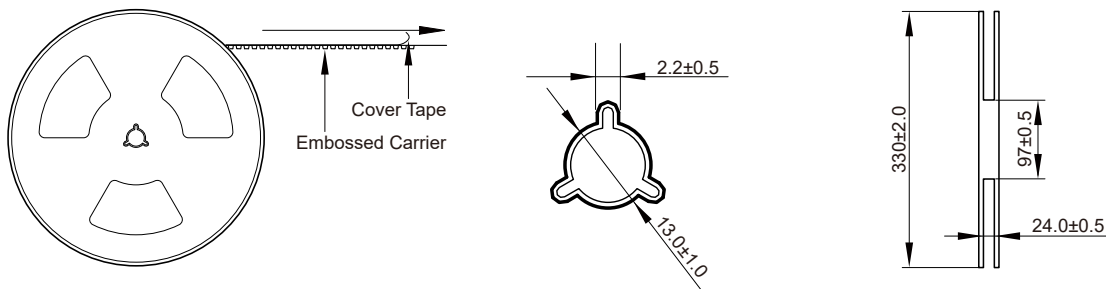


A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
4.4±0.15	11.3±0.15	1.5±0.1	4.0±0.1	12.0±0.1	24.0±0.3	8.0±0.1	1.75±0.1	0.5±0.05

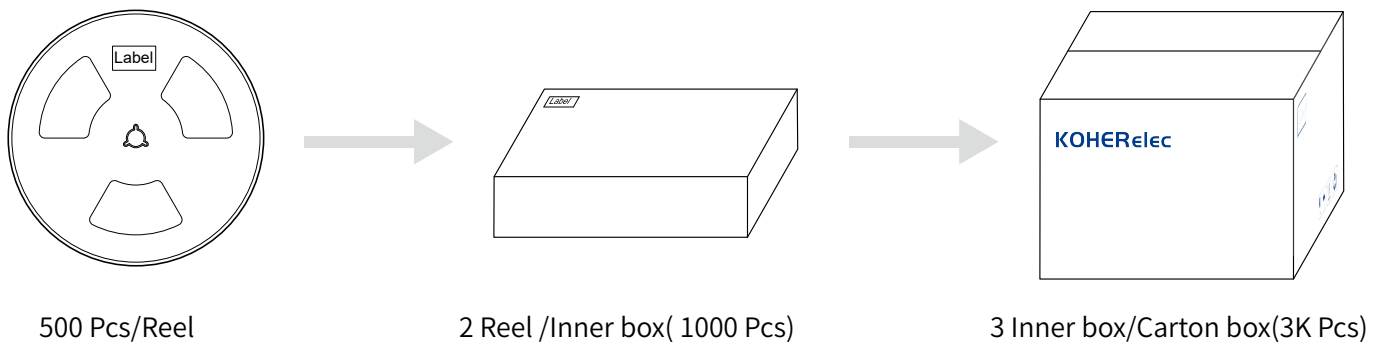
Product Marking:

Marking	Printing (Inductance)
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Reel Dimension: [mm]



Packaging Quantity:



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.