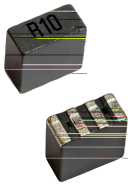


# Molding Power Inductors

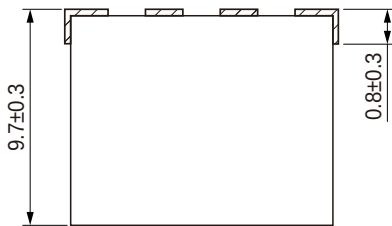
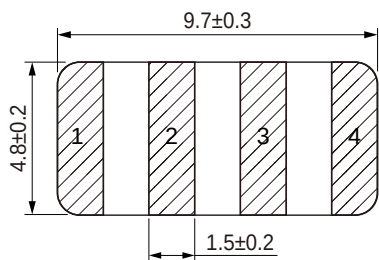
## Size 100510



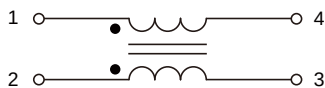
- Compliant for 100% Lead(Pb)-Free and RoHS.
- Higher current carrying Capacity, lower DCR, and more efficiency.
- Operating temperature: -55 to +125 °C(Including self - temperature rise).
- Quantity: 400PCS

- 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]



### Schematic:



### Electrical Properties:

| Part No            | Inductance<br>(μH) | Min.<br>(nH) | Resistance<br>(mΩ) | Resistance<br>(mΩ) | Rise Current | Saturation<br>Current | Hi-Pot<br>Min. | Min. |
|--------------------|--------------------|--------------|--------------------|--------------------|--------------|-----------------------|----------------|------|
| TLVR100510-R10M-02 | 0.1±20%            | 58           | 0.125±10%          | 0.40±10%           | 75           | 130                   | 100            | 0.9  |

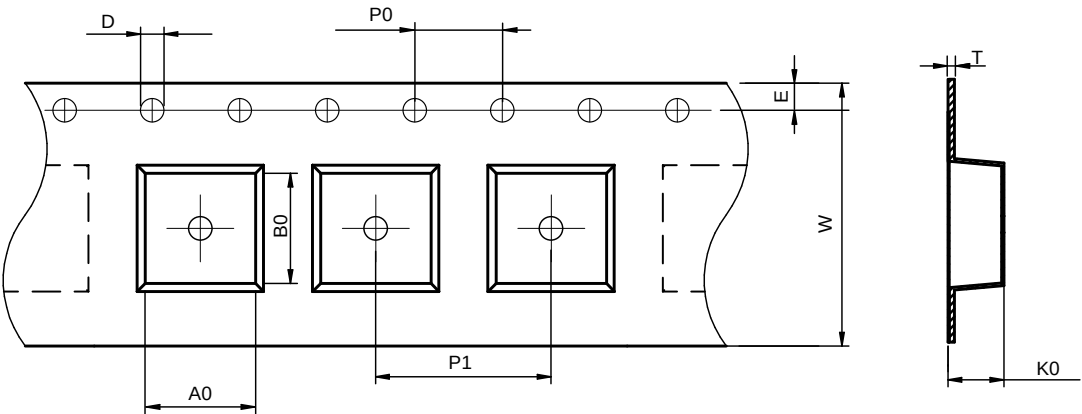
All test data is referenced to 25 °C ambient.  
Saturation Current will cause L0 to drop approximately 30%.  
Temperature Rise Current: The actual value of DC current when the temperature rise is ΔT=40 °C.  
FLL: tested @100 kHz, 1.0 Vrms, Isat, applied for +25 °C.  
Hi-Pot: as pass / fail judgement, tested @ 2s,2mA, between 2 windings.

Soldering Reflow:



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) |
|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| 5.3±0.1    | 10.3±0.1   | 1.5±0.1   | 4.0±0.1    | 12.0±0.1   | 24.0±0.3  | 10.3±0.1   | 1.75±0.1  | 0.5±0.05  |

Product Marking:

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

