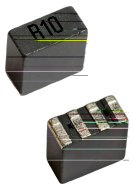
# TLVR Series
Molding Power Inductors
Size 100510



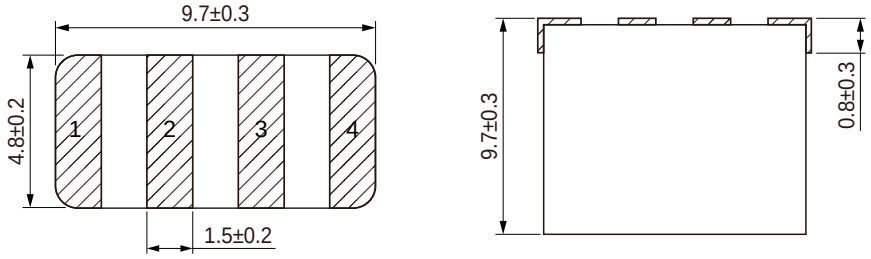

## FEATURES

- Compliant for 100% Lead(Pb)-Free and RoHS.
- Higher current carrying Capacity, lower DCR, and more e ciency.
- Opera ng temperature: -55 to +125 °C(Including self - temperature rise).
- Quan ty: 400PCS

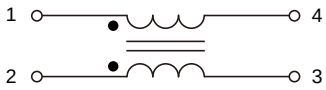
## APPLICATION

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

## Dimensions: [mm]




## Schematic:




## Electrical Properties:

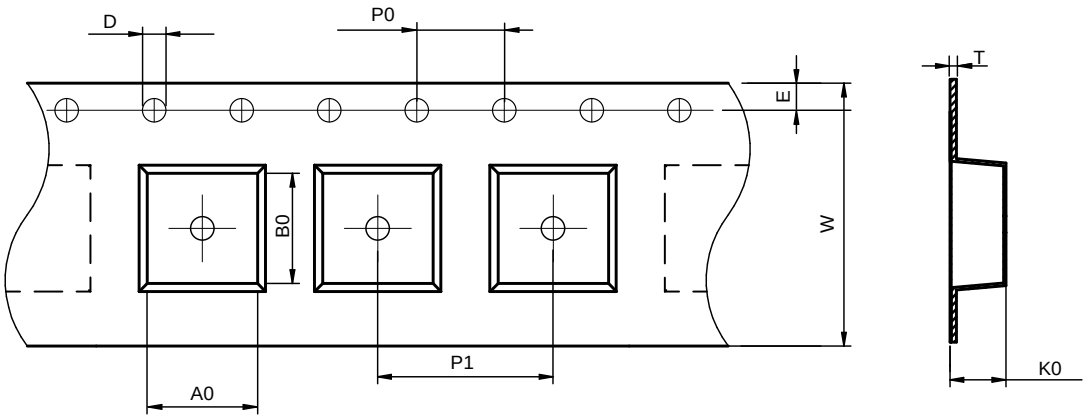
| Part No | Inductance (μH) | Min. (nH) | Resistance (mΩ) | Resistance (mΩ) | Rise Current | Satura on Current | Hi-Pot Min. | Min. |
|---|---|---|---|---|---|---|---|---|
| TLVR100510-R10M-02 | 0.1±20% | 58 | 0.125±10% | 0.40±10% | 75 | 130 | 100 | 0.9 |

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 △T=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 (mm) | B0 (mm) | D (mm) | P0 (mm) | P1 (mm) | W (mm) | K0 (mm) | E (mm) | T (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) |
|---|---|