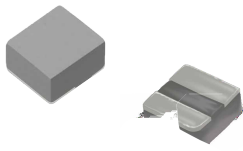


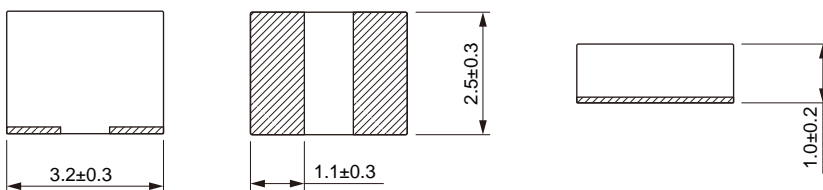
SMD Low Profile High Current Molded Inductor Size 32251B



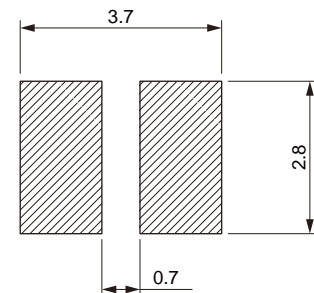
- High efficiency.
- Very low acoustic noise and very low leakage flux noise.
- AEC-Q200 qualified
- 100% Lead(Pb)-Free and RoHS compliant.
- Operating temperature: -55 to +155 °C (including self-temperature rise)
- Quantity: 3000PCS

- ADAS
- Headlamps, tail lamps and interior lighting
- Doors, window lift and seat control
- Audio subsystem
- Digital instrument cluster
- In-Vehicle Infotainment and navigation

Dimensions: [mm]



Land Pattern: [mm]



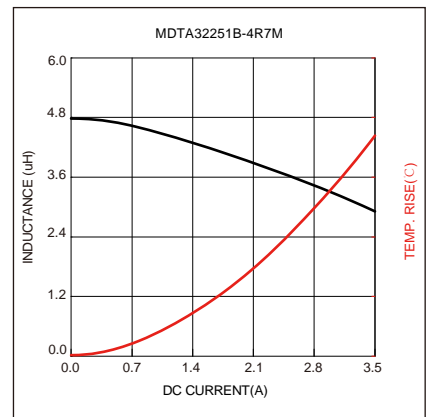
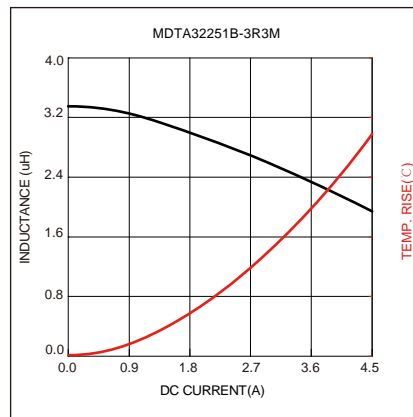
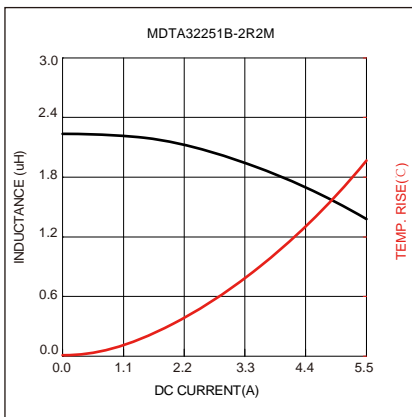
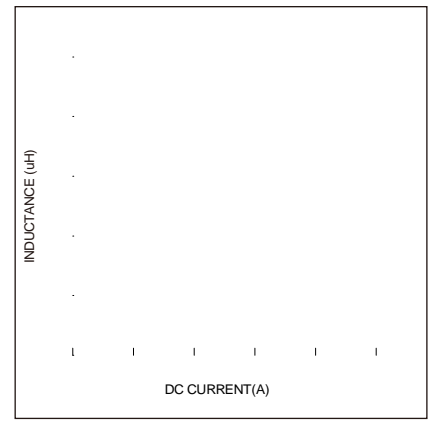
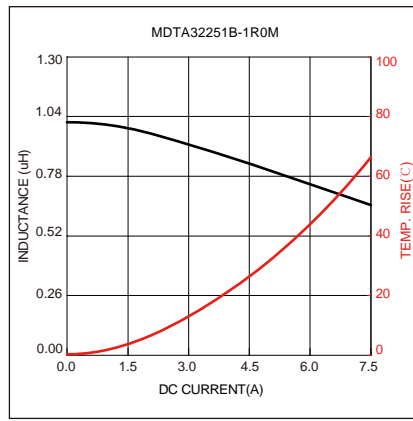
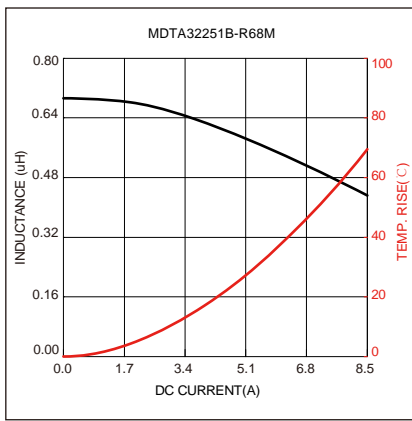
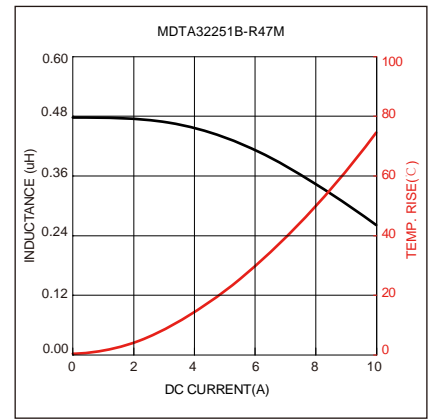
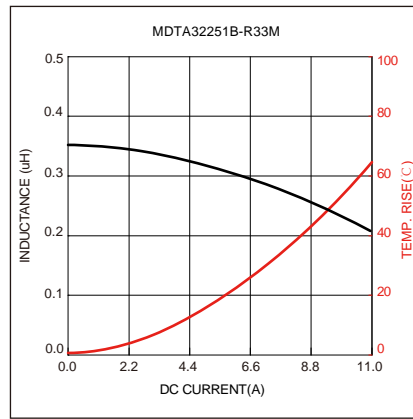
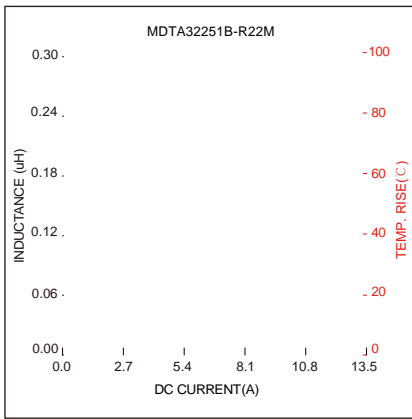
Electrical Properties:

| | (μH) | | | | Saturation | Saturation | ($\text{m}\Omega$) | ($\text{m}\Omega$) |
|-----------------|-------------------|--|-----|-----|------------|------------|----------------------|----------------------|
| MDTA32251B-R22M | 0.22 | | 9.5 | 9.0 | 9.3 | 8.7 | 7.4 | 8.5 |
| MDTA32251B-R33M | 0.33 | | 8.5 | 8.0 | 9.2 | 8.6 | 9.0 | |
| MDTA32251B-R47M | 0.47 | | 7.1 | 6.6 | 8.3 | 7.5 | 17 | |
| MDTA32251B-R68M | 0.68 | | 6.3 | 5.8 | 7.4 | 6.9 | | 24 |
| MDTA32251B-1R0M | 1.0 | | 5.7 | 5.2 | 6.6 | 5.8 | 26 | 30 |
| MDTA32251B-1R5M | 1.5 | | 4.6 | 4.0 | 5.3 | 5.0 | 40 | 50 |
| MDTA32251B-2R2M | 2.2 | | 4.2 | 3.7 | 4.9 | 4.4 | 58 | 70 |
| MDTA32251B-3R3M | 3.3 | | 3.2 | 2.8 | 3.5 | 3.1 | 75 | 95 |
| MDTA32251B-4R7M | 4.7 | | 2.5 | 2.0 | 2.9 | 2.5 | 115 | 135 |
| MDTA32251B-6R8M | 6.8 | | 2.1 | 1.8 | 2.7 | 2.3 | 177 | |
| MDTA32251B-100M | | | 1.9 | 1.6 | 2.3 | 2.0 | 230 | 264 |

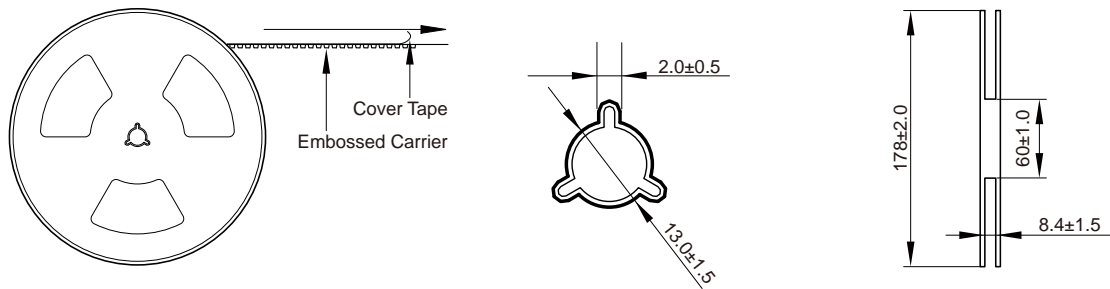
Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^\circ\text{C}$

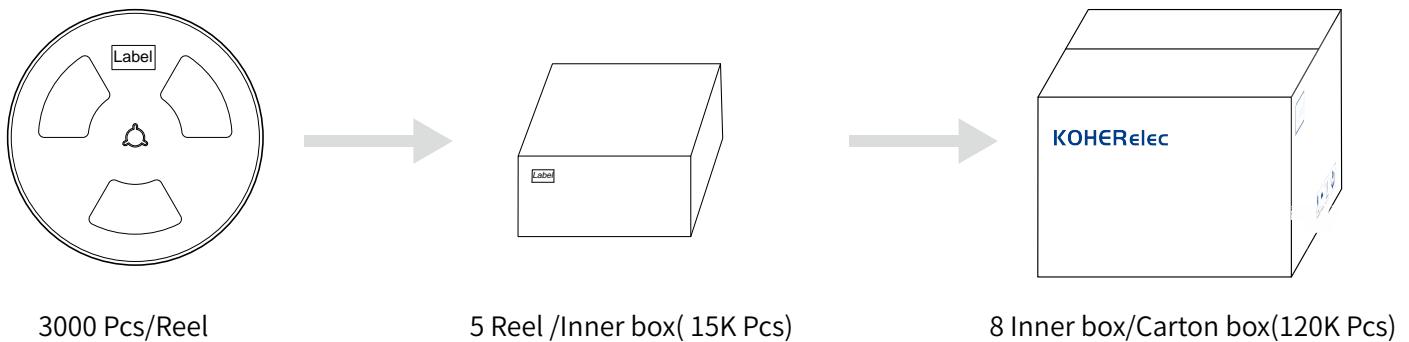
Typical Electrical Characteristics:



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.