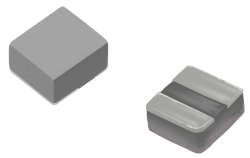
MDTA Series

SMD Low Profile High Current Molded Inductor

Size 25201B



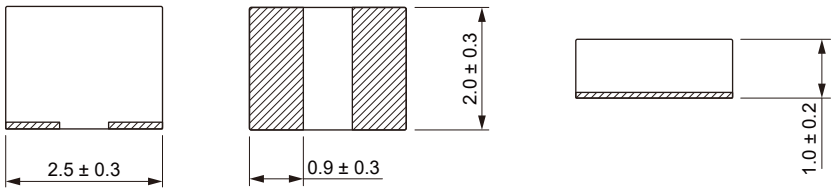
FEATURES

- High current, low DCR,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

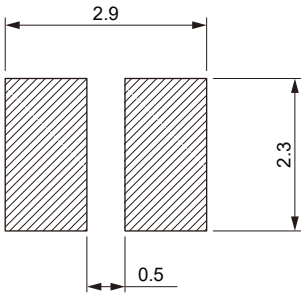
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

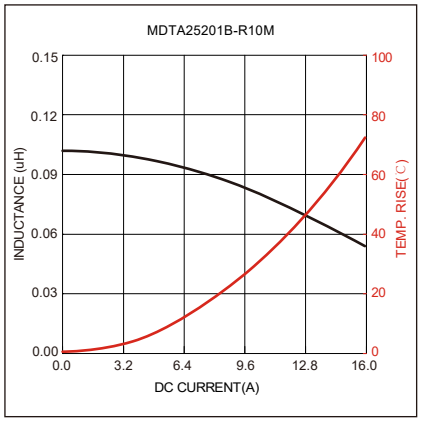
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDTA25201B-R10M	0.10	±20%	12.0	8.0	12.0	10.0	4.0	7.0
MDTA25201B-R22M	0.22	±20%	8.2	7.6	9.6	9.0	9.0	10.8
MDTA25201B-R33M	0.33	±20%	7.0	6.4	8.0	7.5	10	12
MDTA25201B-R47M	0.47	±20%	6.7	6.0	7.4	6.8	16	20
MDTA25201B-R68M	0.68	±20%	6.1	5.5	6.5	6.0	19	23
MDTA25201B-1R0M	1.00	±20%	5.7	5.2	5.8	5.3	31	37
MDTA25201B-1R5M	1.50	±20%	4.6	4.2	4.7	4.4	27	32
MDTA25201B-2R2M	2.20	±20%	3.7	3.3	4.0	3.3	52	60
MDTA25201B-3R3M	3.30	±20%	2.8	2.5	3.0	2.7	80	97
MDTA25201B-4R7M	4.70	±20%	2.3	2.0	2.8	2.2	170	204
MDTA25201B-6R8M	6.80	±20%	1.6	1.4	2.0	1.7	245	270
MDTA25201B-100M	10.0	±20%	1.2	1.05	1.6	1.45	330	400

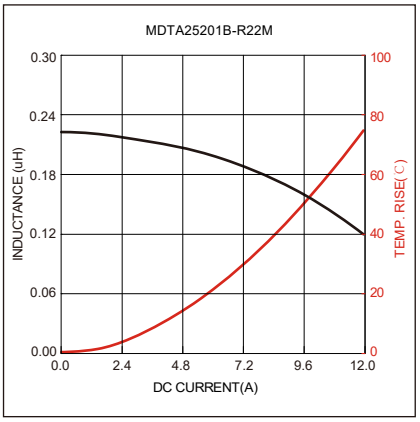
Saturation Current will cause L to drop approximately 30%

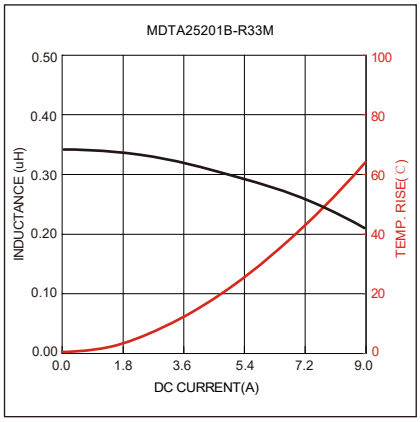
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

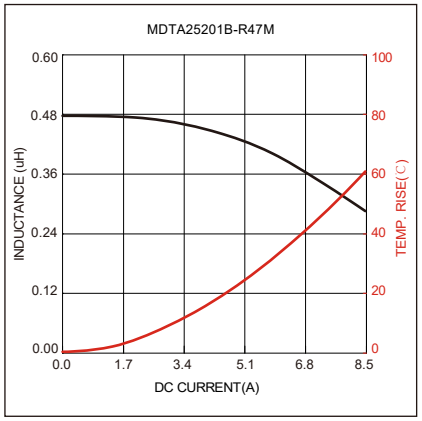
KOHER Electronics
F9, No. 4188, Huaning Rd, Minhang District, Shanghai
021-34753361 Contact@kohergroup.com

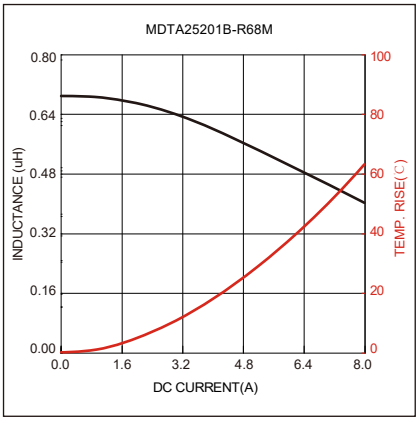
Typical Electrical Characteristics:

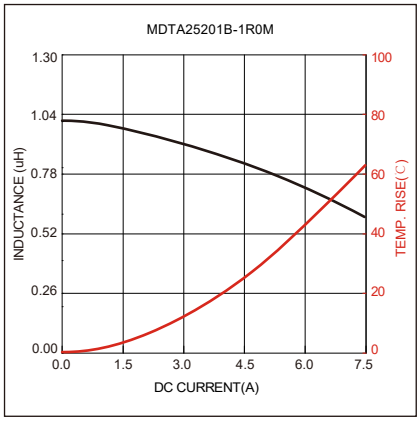


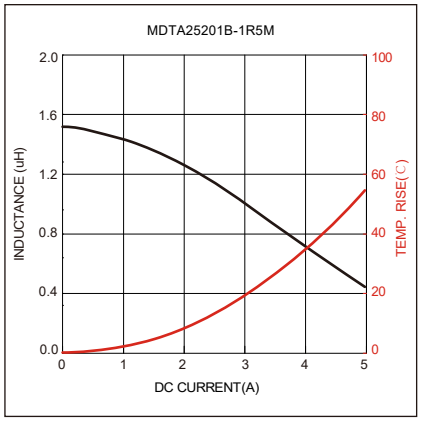


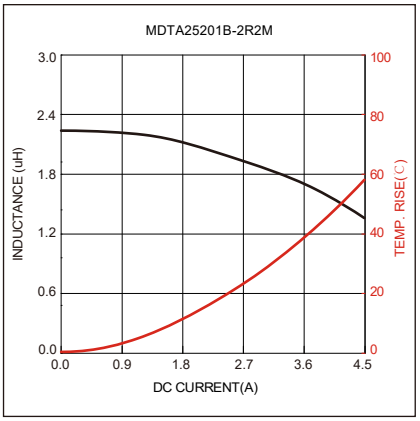


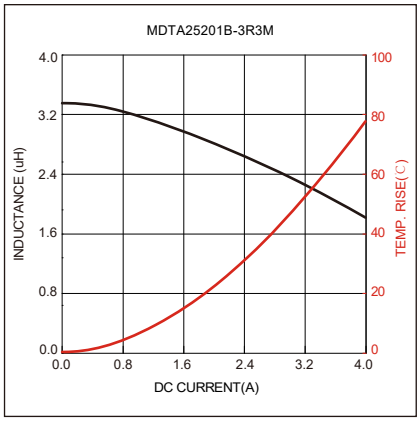


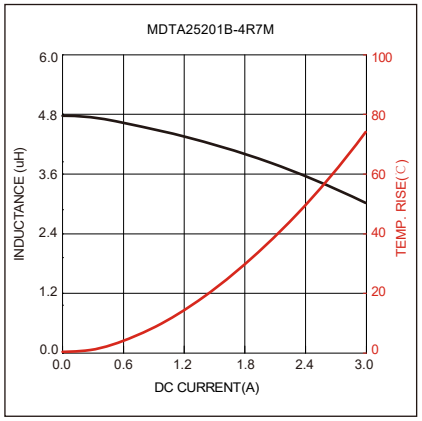


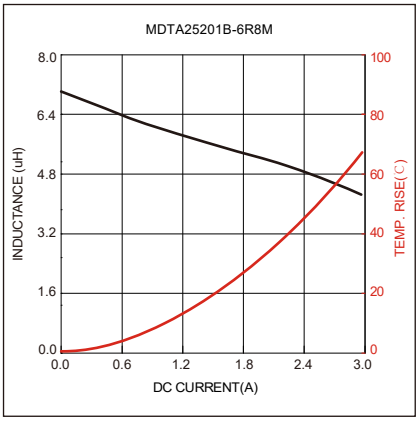


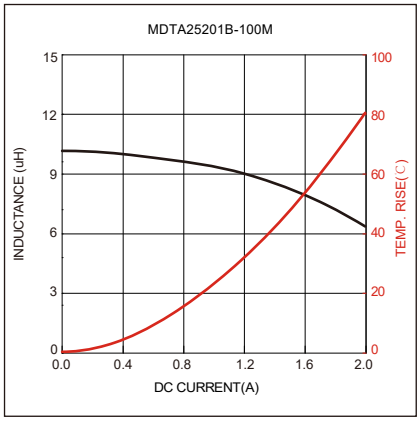




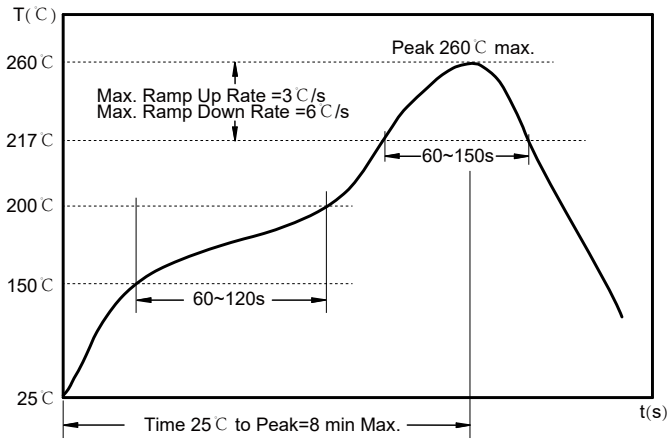








Soldering Reflow:



Preheat condition: 150 ~200℃/ 60~120 sec.

Allowed time above 217℃: 60~150 sec.

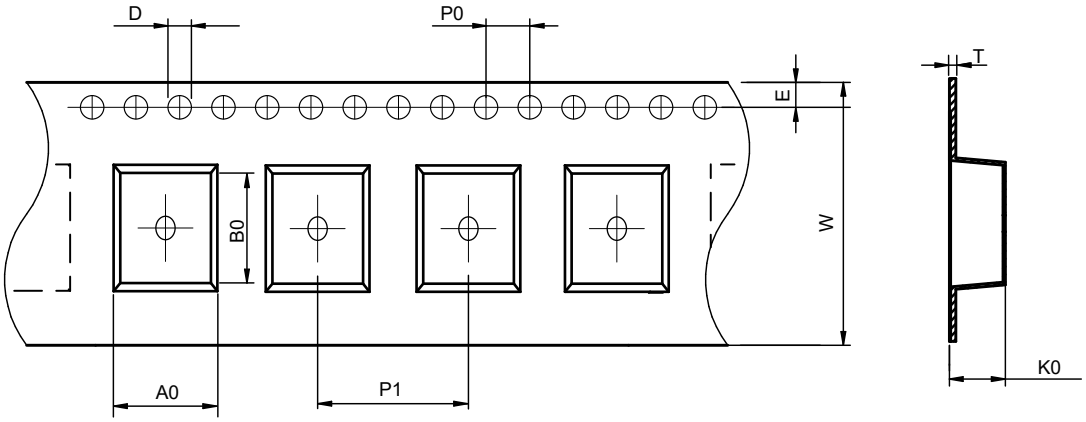
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 3x max.

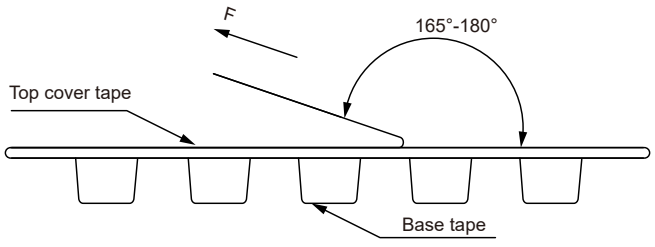
Packaging Information:

Tape Dimension:



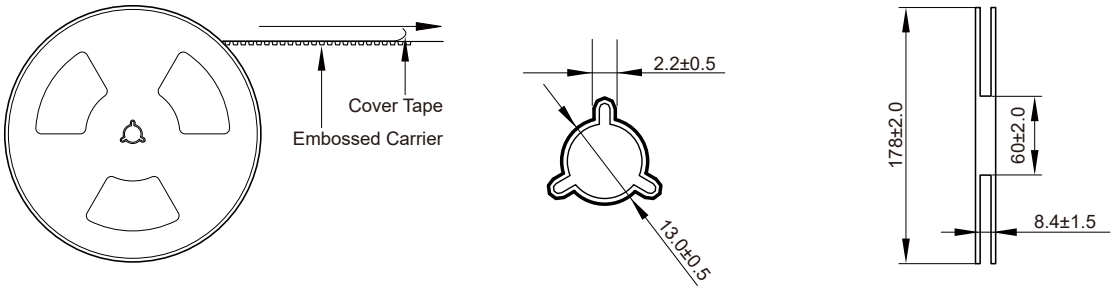
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTA25201B	2.4±0.1	2.9±0.1	1.5±0.1	4.0±0.1	4.0±0.1	8.0±0.1	1.4±0.1	1.75±0.1	0.25±0.05

Peel force of top cover tape:

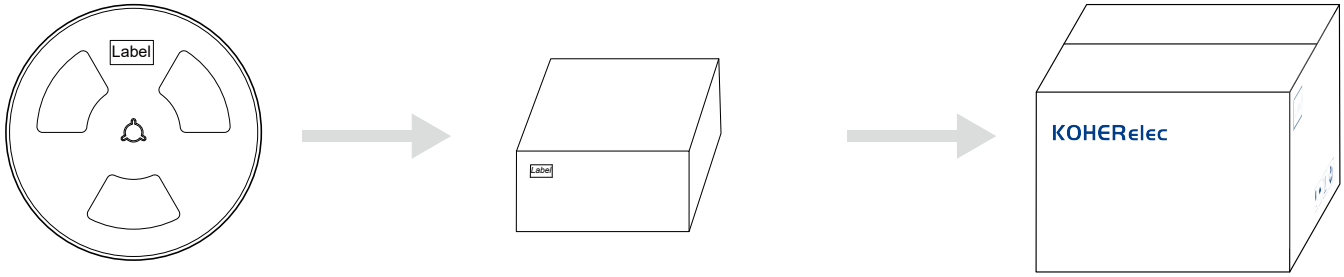


The peel force of top cover tape shall be between 0.1 to 0.98 N

Reel Dimension：[mm]



Packaging Quantity:



3000 Pcs/Reel

5 Reel /Inner box(15K Pcs)

8 Inner box/Carton box(120K Pcs)

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.
- 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.