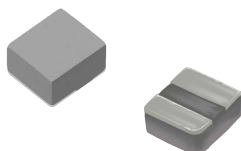


MDTP Series

Mini Molding Power Inductors

Size 25201A



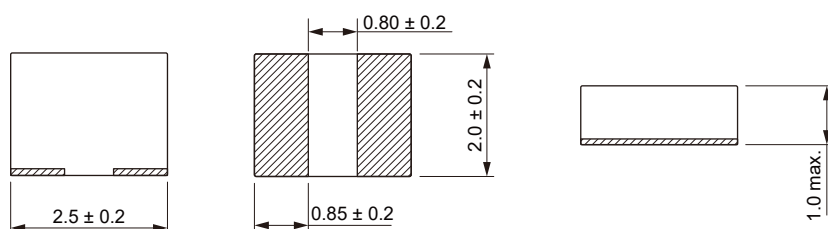
FEATURES

- High performance (I_{sat}) realized by metal dust core.
- Low loss realized with low R_{dc} .
- Closed magnetic circuit design reduces leakage flux.
- Compliance with RoHS and Halogen Free.
- Operating temperature: -55 to +125°C (including self-temperature rise)
- Quantity: 3000pcs

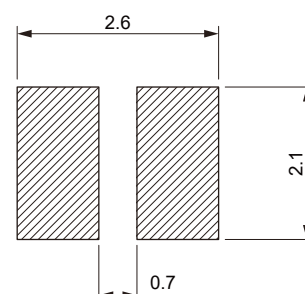
APPLICATION

- DC/DC converters
- Note PC power system, incl. IMVP-6
- Wi-Fi module, VR, AR, HDDs, DSCs, etc

Dimensions: [mm]



Land Pattern: [mm]



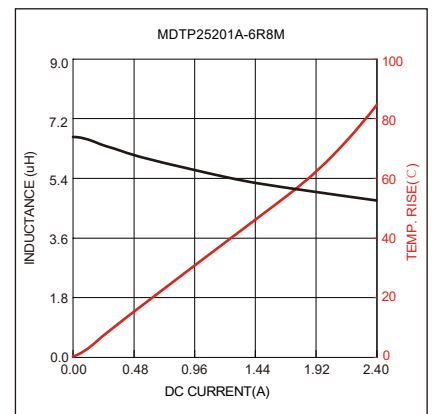
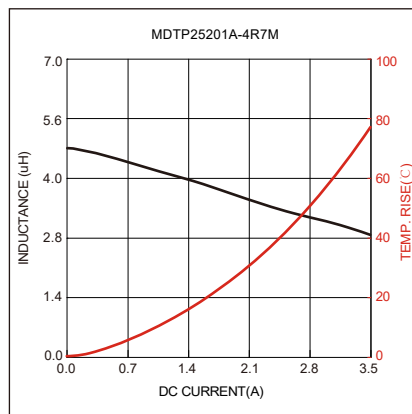
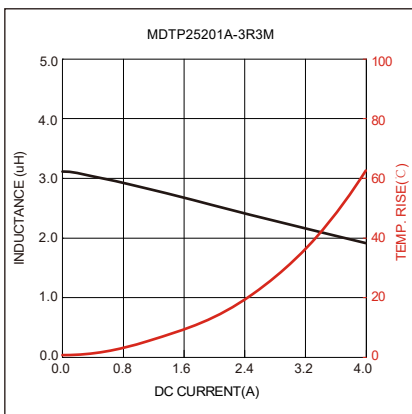
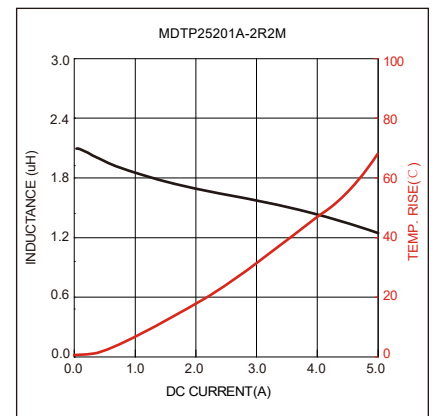
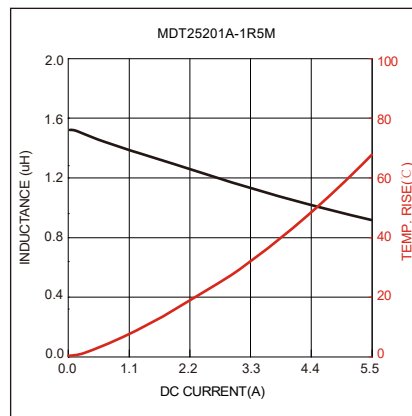
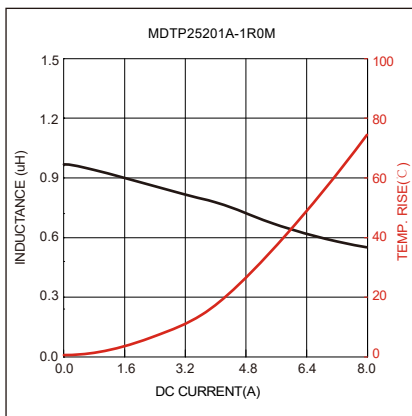
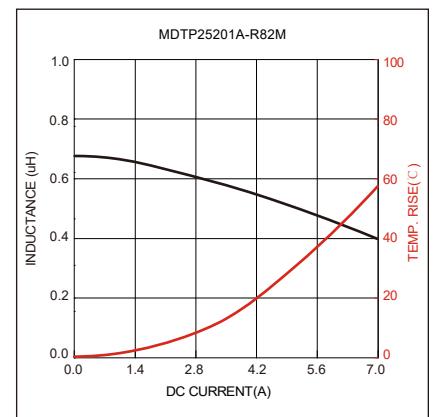
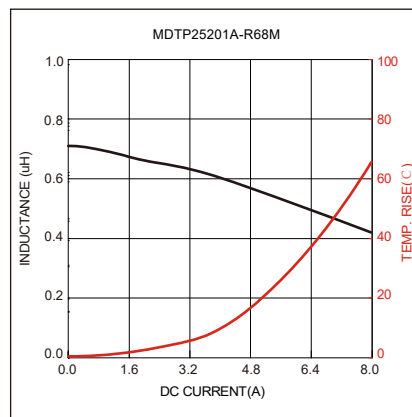
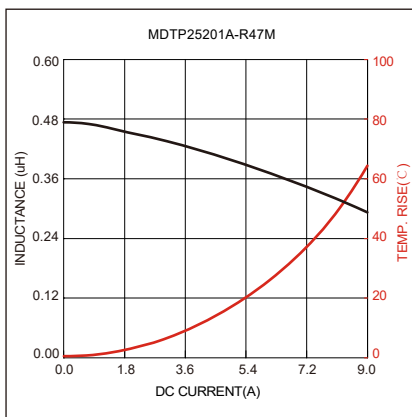
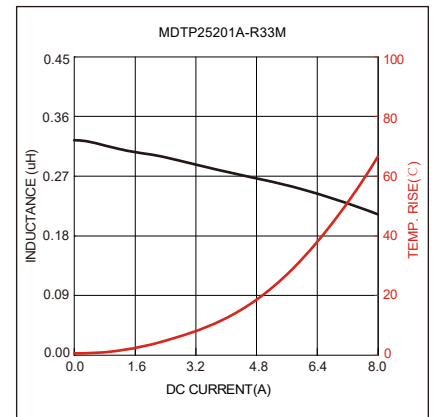
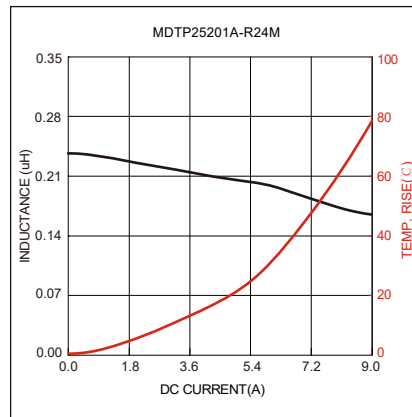
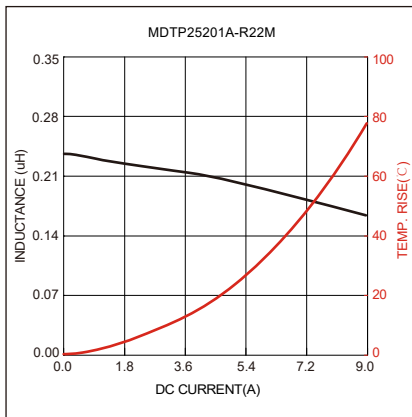
Electrical Properties:

Part No	Inductance @ 1MHz/1V (μ H)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Typ. (m Ω)	DC Resistance Max. (m Ω)
MDTP25201A-R22M	0.22	±20%	6.80	6.50	8.60	7.90	12	17.0
MDTP25201A-R24M	0.24	±20%	6.70	6.40	8.50	7.80	12	17.5
MDTP25201A-R33M	0.33	±20%	6.50	6.20	7.60	7.20	13	19.0
MDTP25201A-R47M	0.47	±20%	6.10	5.60	6.90	6.50	15	22.0
MDTP25201A-R68M	0.68	±20%	5.60	5.00	5.90	5.50	23	27.0
MDTP25201A-R82M	0.82	±20%	4.50	4.10	5.30	4.80	25	29.0
MDTP25201A-1R0M	1.00	±20%	4.70	4.10	5.40	4.80	25	30.0
MDTP25201A-1R5M	1.50	±20%	3.40	3.00	4.30	3.90	45	55.0
MDTP25201A-2R2M	2.20	±20%	2.40	2.10	3.30	3.00	62	70.0
MDTP25201A-3R3M	3.30	±20%	2.50	2.10	2.80	2.50	86	100
MDTP25201A-4R7M	4.70	±20%	2.00	1.60	2.60	2.00	160	180
MDTP25201A-6R8M	6.80	±20%	1.60	1.40	2.40	1.90	270	320
MDTP25201A-100M	10.0	±20%	1.05	0.95	1.55	1.40	500	560

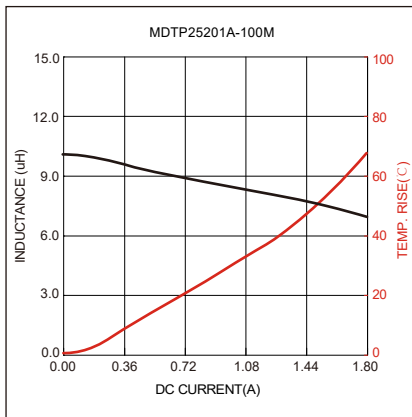
Saturation Current will cause L to drop approximately 30%

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

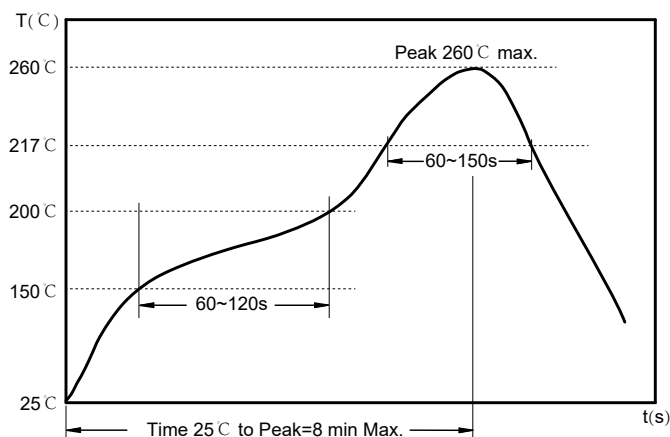
Typical Electrical Characteristics:



Typical Electrical Characteristics:



Soldering Reflow:



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

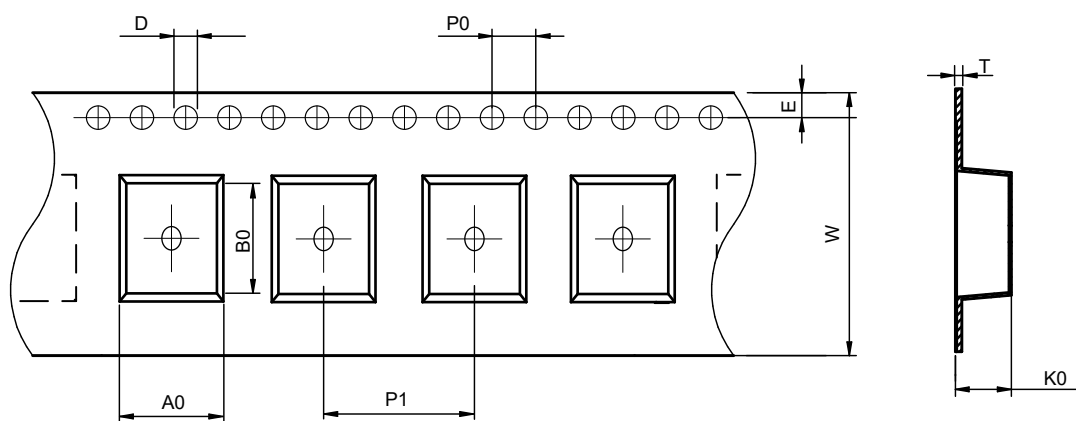
Allowed time above 217°C: 60~150 sec.

Max temperature: 260°C.

Max time at max temperature: 10 sec.

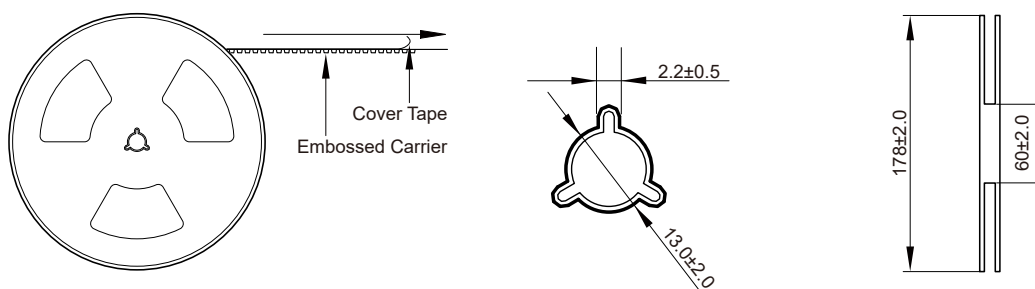
Packaging Information:

Tape Dimension:

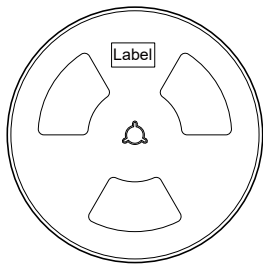


Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTP25201A	2.45±0.1	2.80±0.1	1.0±0.2	4.0±0.1	4.0±0.1	8.0±0.1	1.20±0.1	1.75±0.1	0.25±0.05

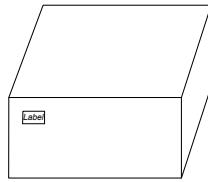
Reel Dimension: [mm]



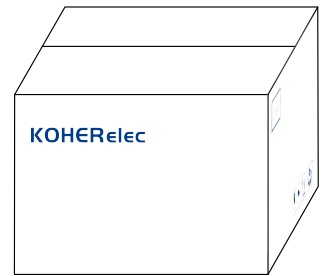
Packaging Quantity:



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.