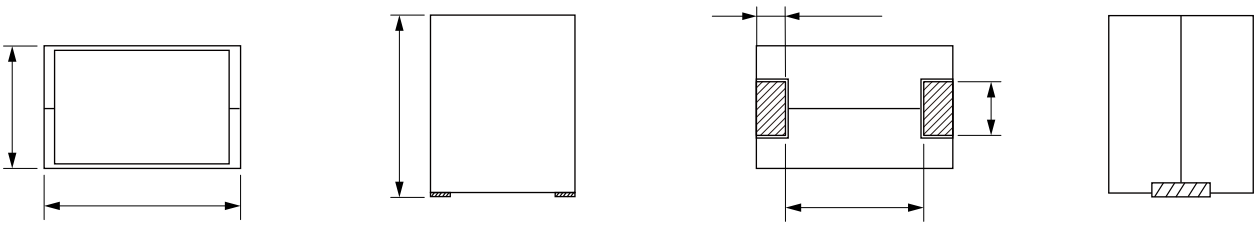
MDCE Series

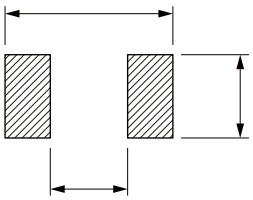
FEATURES

- High saturation characteristic core for large saturation current and low loss.
- Closed magnetic circuit design reduces leakage flux.
- High precision DCR.
- Halogen Free & ROHS compliant.
- Operating temperature: -40 to +125 °C

APPLICATION

- 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.





Series	A	B	C	D	E	F	a	b	c
MDCE060610	6.5 max	6.5 max	10.0 max	3.7±0.2	1.75 typ	2.75 typ	7.2	2.6	4.2
MDCE090510	9.0 max	5.2 max	9.5 max	2.4 typ	2.50 typ	3.70 typ	9.2	3.4	3.0
MDCE100710	10.0 max	7.0 max	10.0 max	2.4±0.2	2.70 typ	4.60 typ	11.0	4.4	3.0

Part No	Inductance @ 100KHz/0.1V (nH)	Tolerance	Temperature Rise Current Typ. (A)	Current Typ. (A)	DC Resistance ±10%
MDCE060610-R12L	120	±15%	70	65	0.170

Part No	Inductance @ 500KHz/0.25V (nH)	Tolerance	Temperature Rise Current Typ. (A)	Current Typ. (A)	DC Resistance ±10%
MDCE090510SL-R10L	100	±15%		80	0.125

Part No	Inductance @ 500KHz/0.25V (nH)	Tolerance	Temperature Rise Current Typ. (A)	Current Typ. (A)	DC Resistance ±10%
MDCE100710L-R15L	150	±15%	62	80	0.185

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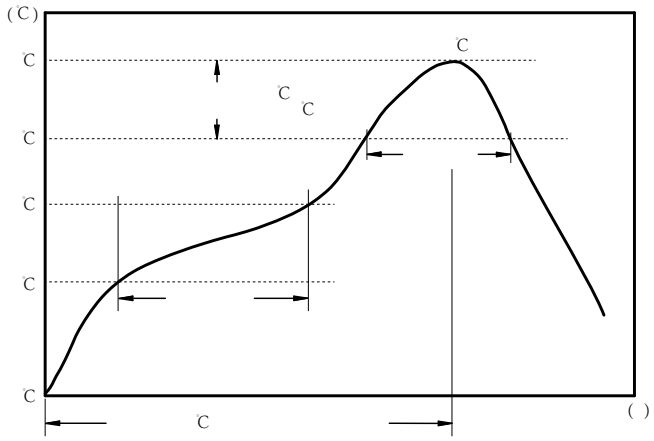

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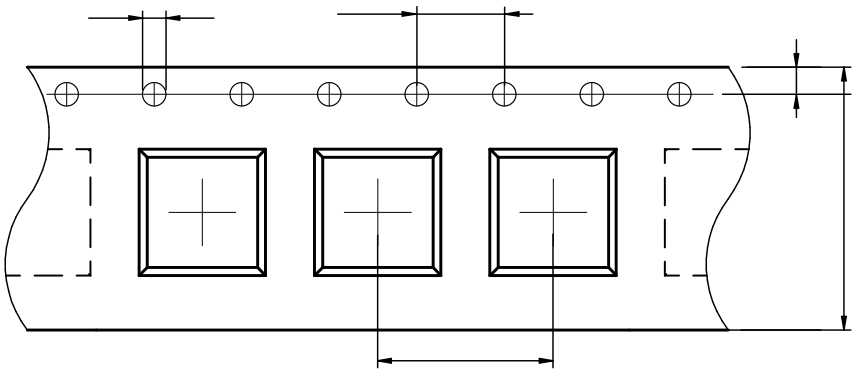

060610	1.5	4.0	16.0	24.0	1.75
090510	1.5	4.0	12.0	24.0	1.75
100710	1.5	4.0	16.0	24.0	1.75

Marking	Printing (Inductance)

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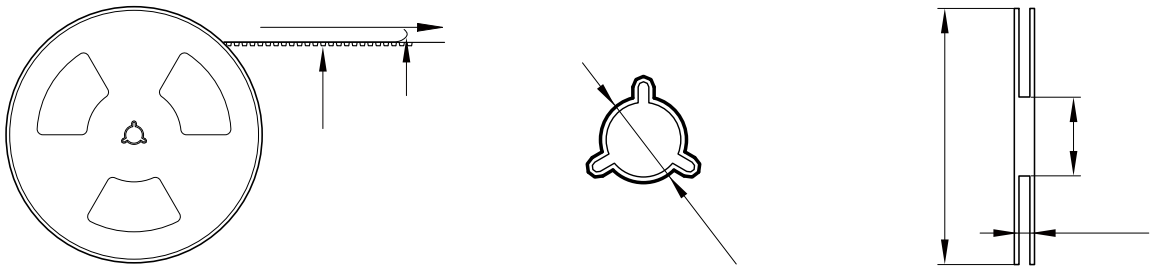

060610	330±1.0	100±1.0	13.2±0.5	24.5±0.2	400
090510	330±1.0	100±1.0	13.2±0.5	24.5±0.2	500
100710	330±1.0	100±1.0	13.2±0.5	24.5±0.2	400

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