

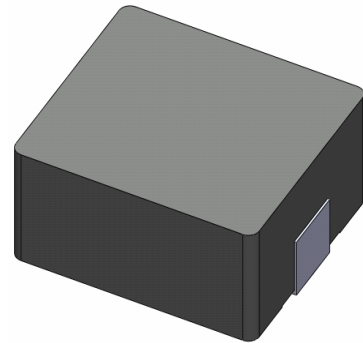
SMD Power Inductor

125CDMCC/DS



Description

- Metal compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- L×W×H:13.8×12.9×5.0mm Max.
- Product weight:4.5 g (Ref.)
- Moisture Sensitivity Level: 1



Applications

- Ideally used in notebook, ultrabook, tablet PC, LCD display, Server application.
- High current, POL converters.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.

Environmental Data

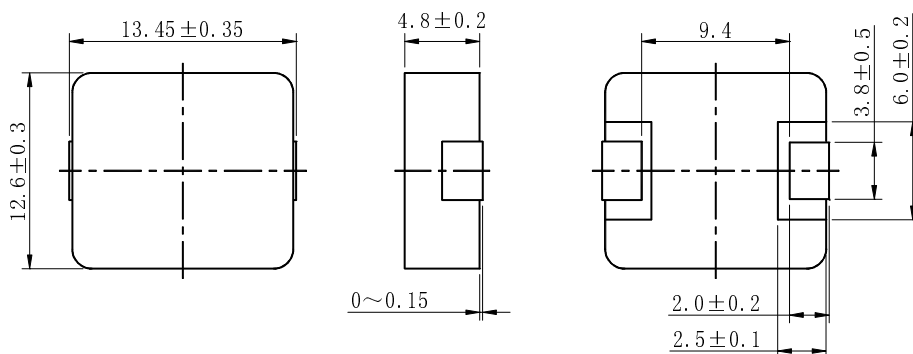
- Operating temperature range: -55°C ~+125°C (including coil's self temperature rise)
- Storage temperature range: -55°C ~+125°C

Packaging

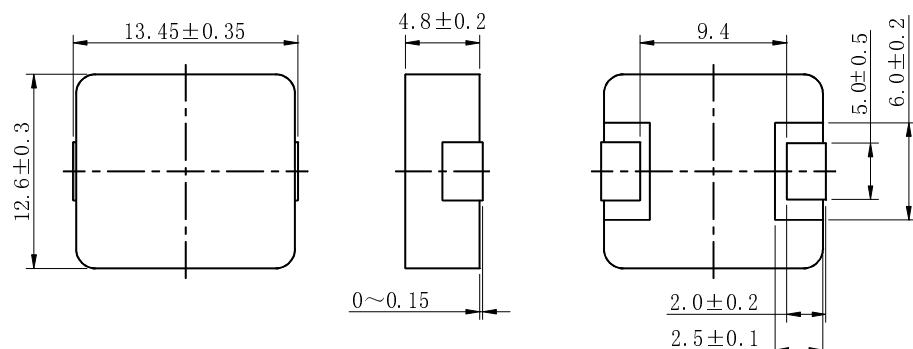
- Carrier tape and reel packaging.
- 500Pcs per Reel.

Dimensions - [mm]

(0.36μH~2.2μH)



(3.3μH~47μH)



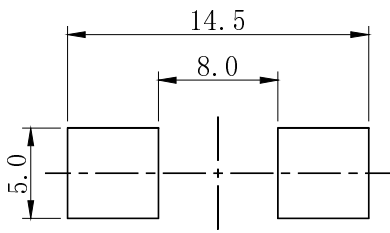
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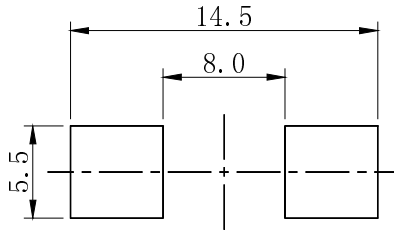
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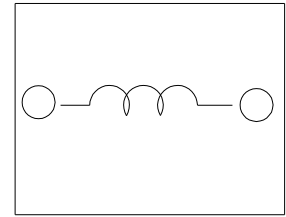
Land patterns and Schematics- [mm]



(0.36 μ H~2.2 μ H)



(3.3 μ H~47 μ H)



Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [Within]※1	D.C.R(m Ω) Max.(Typ.) at 25 $^{\circ}$ C	Saturation Current (A)Max.(Typ.) (at 25 $^{\circ}$ C)※2	Temperature rise current (A)Typ.※3
125CDMCCDS-R36MC	R36	0.36 \pm 20%	0.95(0.72)	68.0(80.0)	40.0
125CDMCCDS-R47MC	R47	0.47 \pm 20%	1.1(0.8)	53.0(62.0)	37.0
125CDMCCDS-R68MC	R68	0.68 \pm 20%	1.3(1.1)	51.0(60.0)	33.0
125CDMCCDS-1R0MC	1R0	1.0 \pm 20%	1.9(1.6)	40.0(47.0)	28.0
125CDMCCDS-1R5MC	1R5	1.5 \pm 20%	3.3(2.8)	32.0(38.0)	22.0
125CDMCCDS-1R8MC	1R8	1.8 \pm 20%	3.5(3.0)	30.0(35.0)	21.0
125CDMCCDS-2R2MC	2R2	2.2 \pm 20%	4.2(3.5)	29.0(34.0)	20.0
125CDMCCDS-3R3MC	3R3	3.3 \pm 20%	7.8(6.5)	23.0(27.0)	17.0
125CDMCCDS-4R7MC	4R7	4.7 \pm 20%	10.0(8.4)	19.0(22.0)	14.0
125CDMCCDS-6R8MC	6R8	6.8 \pm 20%	18.0(14.5)	14.0(17.0)	11.0
125CDMCCDS-8R2MC	8R2	8.2 \pm 20%	19.0(16.0)	13.0(15.0)	10.0
125CDMCCDS-100MC	100	10.0 \pm 20%	22.0(19.0)	12.0(14.0)	9.0
125CDMCCDS-220MC	220	22.0 \pm 20%	40.4(33.7)	7.2(8.5)	6.5
125CDMCCDS-330MC	330	33.0 \pm 20%	57.0(47.5)	6.1(7.2)	6.0
125CDMCCDS-470MC	470	47.0 \pm 20%	97.2(81.0)	5.4(6.3)	4.5

※1 Measuring frequency Inductance at 100kHz,1.0V

※2 Saturation current: The value of DC current when the inductance is over 70% of its initial value. (at 25 $^{\circ}$ C)

※3 Temperature rise current: The actual value of DC current when temperature of coil rise is $\Delta T=40^{\circ}$ C($T_a=25^{\circ}$ C)

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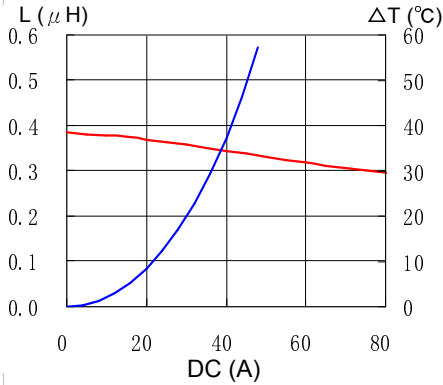
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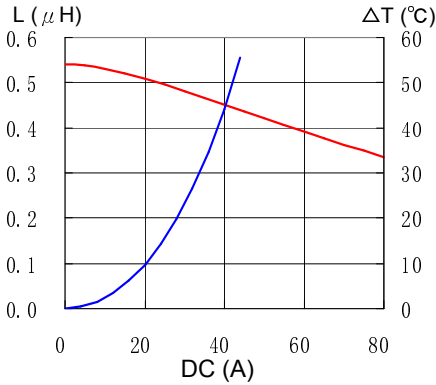
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

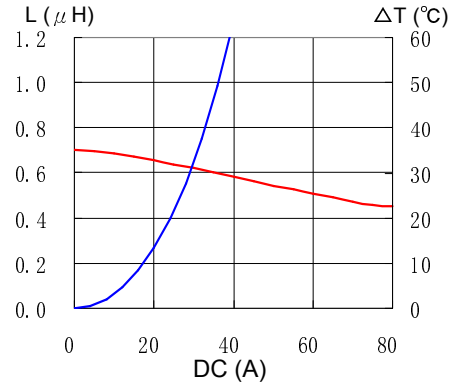
1.125CDMCCDS-R36MC



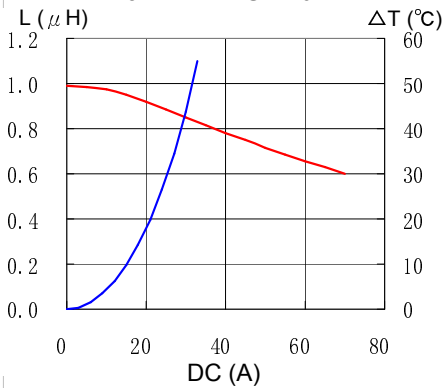
2.125CDMCCDS-R47MC



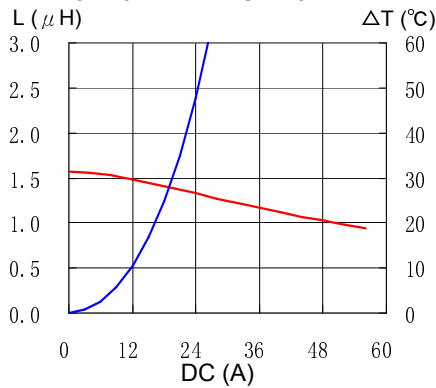
3.125CDMCCDS-R68MC



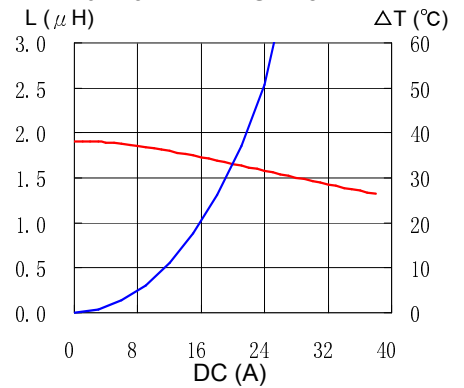
4.125CDMCCDS-1R0MC



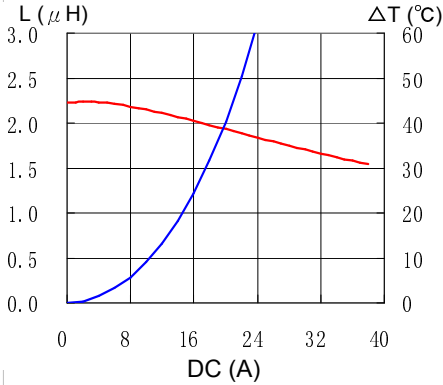
5.125CDMCCDS-1R5MC



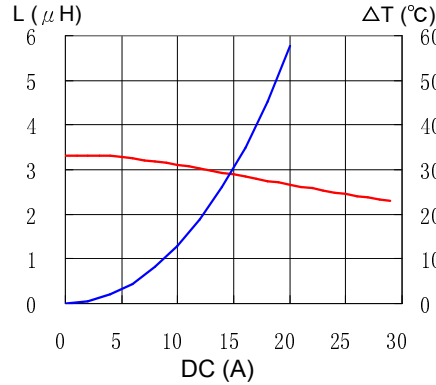
6.125CDMCCDS-1R8MC



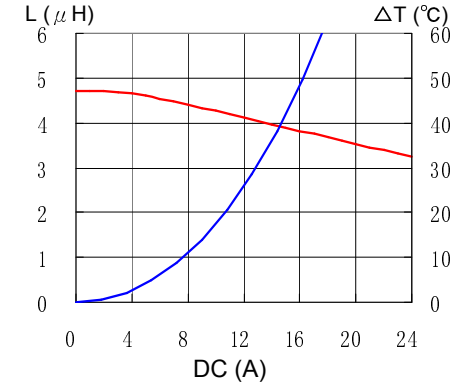
7.125CDMCCDS-2R2MC



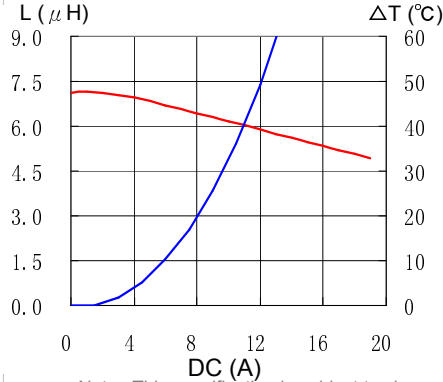
8.125CDMCCDS-3R3MC



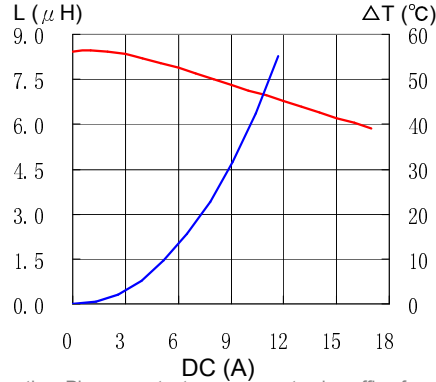
9.125CDMCCDS-4R7MC



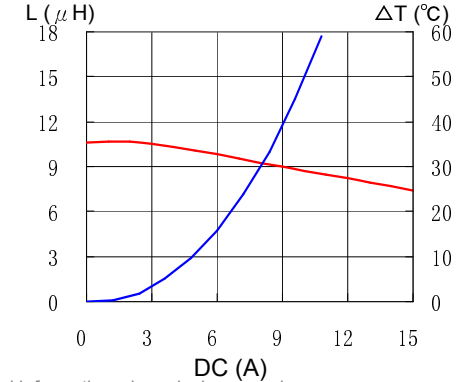
10.125CDMCCDS-6R8MC



11.125CDMCCDS-8R2MC



12.125CDMCCDS-100MC



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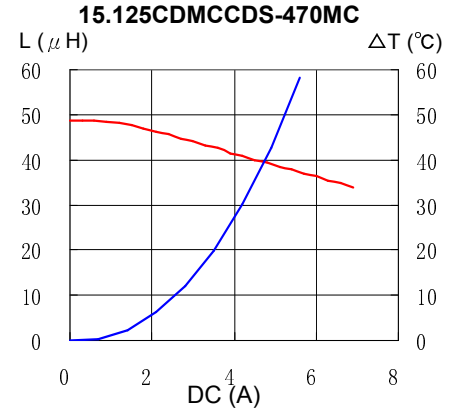
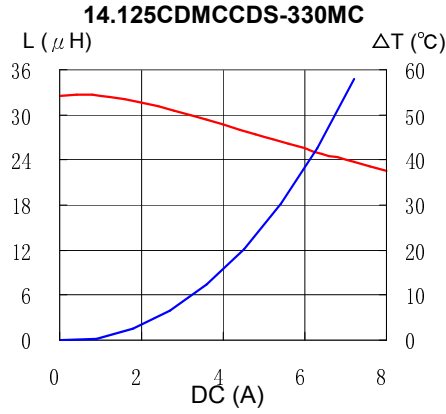
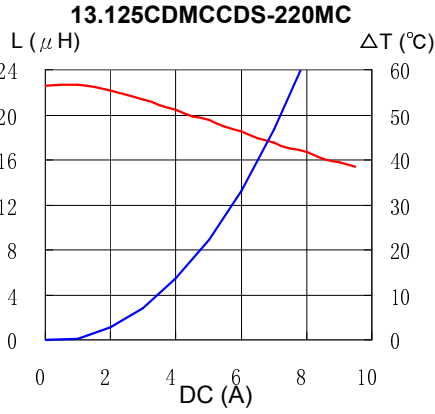
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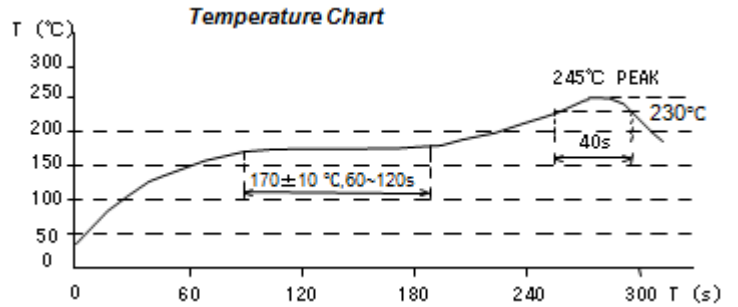
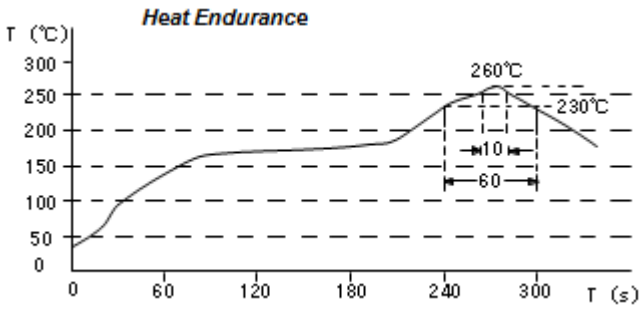


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



For sales office information, please [click here](#) to visit our website.

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