

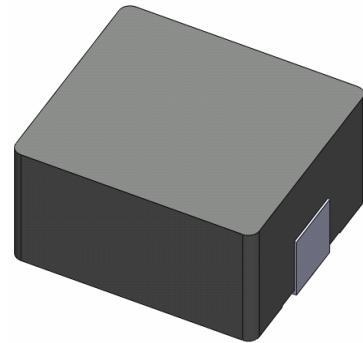
SMD Power Inductor

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.

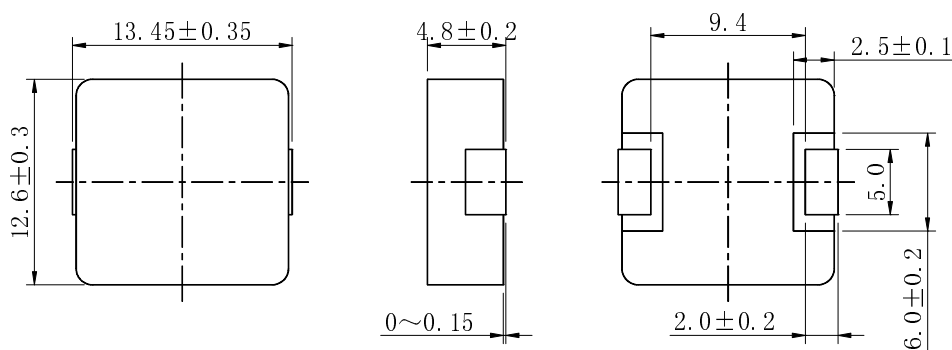
Environmental Data

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

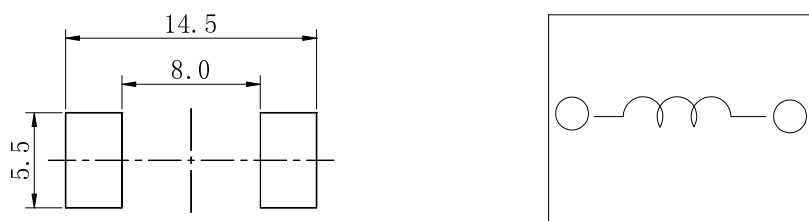
Packaging

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

Dimensions - [mm]



Land patterns and Schematics- [mm]



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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Electrical Characteristics

Part No.	Stamp	Inductance [Within] (μ H)※1	D.C.R(m Ω) Max.(Typ.) at 25°C	Saturation Current(A) Max.(Typ.) (at 25°C)※2	Temperature rise current (A) (Typ.) ※3
125CDMCCDS-3R3MC	3R3	3.3 \pm 20%	7.8(6.5)	21.3(25.0)	17.0
125CDMCCDS-4R7MC	4R7	4.7 \pm 20%	10.0(8.4)	17.9(21.0)	14.0
125CDMCCDS-6R8MC	6R8	6.8 \pm 20%	18.0(14.5)	14.0(16.5)	11.0
125CDMCCDS-8R2MC	8R2	8.2 \pm 20%	19.0(16.0)	12.3(14.5)	10.0
125CDMCCDS-100MC	100	10.0 \pm 20%	22.0(19.0)	10.6(12.5)	9.0
125CDMCCDS-220MC	220	22.0 \pm 20%	40.4(33.7)	6.8(8.0)	6.5
125CDMCCDS-330MC	330	33.0 \pm 20%	57.0(47.5)	5.9(6.8)	6.0
125CDMCCDS-470MC	470	47.0 \pm 20%	97.2(81.0)	5.1(6.0)	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°C)

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

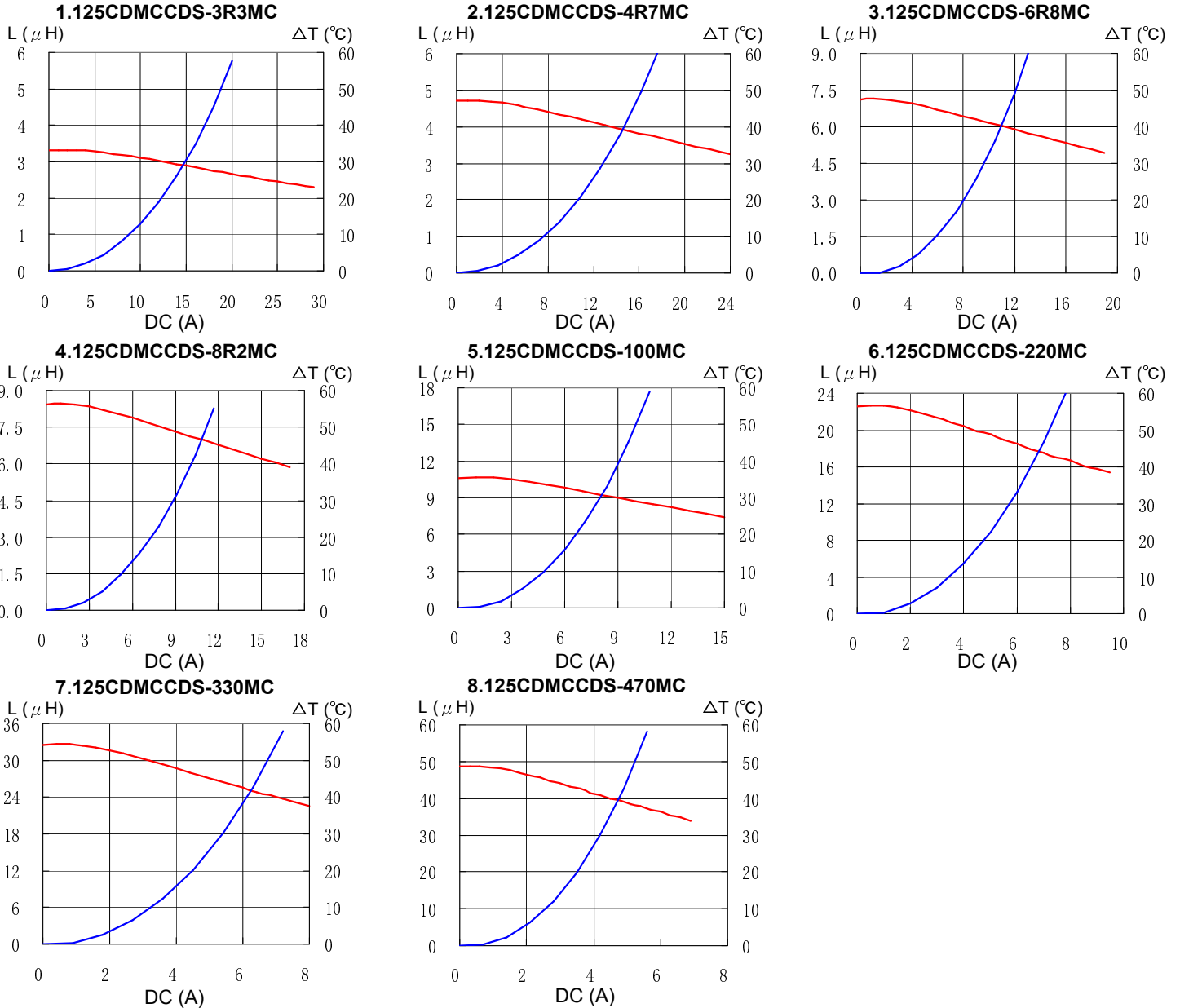
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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



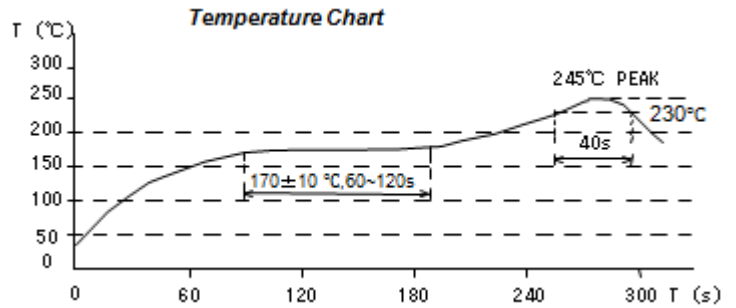
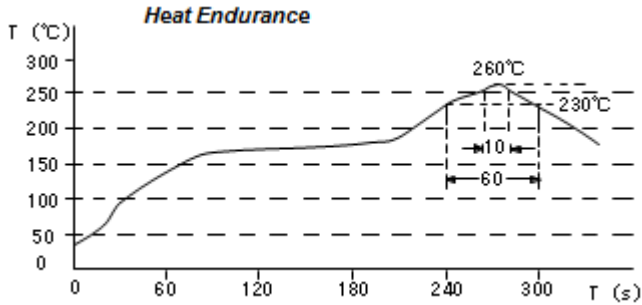
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Solder Reflow Condition



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

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