

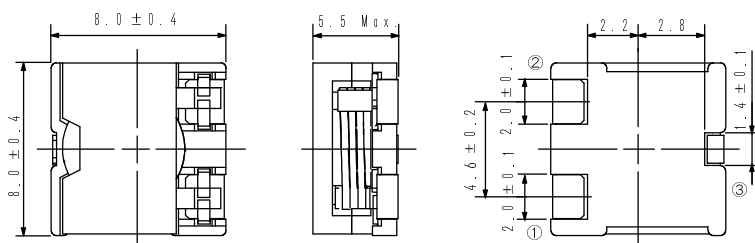
Description

- Ferrite core construction.
- Magnetically shielded.
- L x W x H: 8.4 x 8.4 x 5.5 mm Max.
- Product weight: 1.2 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

- Operating temperature range: -40°C ~ +125°C
(including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 1000pcs per reel

- Ideally used in portable computer CPU power supply.



Technical drawing of a mechanical part. The drawing includes a side view on the left and a cross-section on the right. Dimensions are given in millimeters (mm).

Side View Dimensions:

- Overall width: 2.0
- Overall height: 2.2
- Distance from left edge to centerline: 2.8
- Distance from centerline to right edge: 2.2
- Overall length: 9.0

Cross-section Dimensions:

- Inner diameter: 2.1
- Outer diameter: 2.2

Section View:

The section view shows a cross-section of the part, labeled with a circled 3 (③). It features a central hole with a diameter of 2.1 mm and an outer diameter of 2.2 mm. The section is indicated by a line with a circled 1 (①) at the start and a circled 2 (②) at the end.

Electrical characteristics - Low D.C.R. Type

Part No.	Stamp	Inductance [Within]※1	D.C.R. (m Ω)[Max.] (at20℃)	Saturation current (A)※2		Temperature Rise Current (A)※3
				(at 20℃)	(at105℃)	
CDEP85NP-R5ØMC-125	R50ML	0.5 μ H±20%	2.5(2.1)	12.0(15.0)	10.4(13.0)	18.0
CDEP85NP-1R1MC-125	1R1ML	1.1 μ H±20%	3.4(2.8)	7.8(9.8)	6.8(8.5)	17.0
CDEP85NP-2RØMC-125	2R0ML	2.0 μ H±20%	4.8(4.0)	5.3(6.6)	4.7(5.9)	13.5
CDEP85NP-3R1MC-125	3R1ML	3.1 μ H±20%	7.0(5.9)	4.4(5.5)	3.7(4.6)	10.8
CDEP85NP-4R5MC-125	4R5ML	4.5 μ H±20%	8.1(6.8)	3.6(4.5)	3.2(4.0)	9.7
CDEP85NP-6R1MC-125	6R1ML	6.1 μ H±20%	9.8(8.2)	3.4(4.2)	2.9(3.6)	8.3
CDEP85NP-8RØMC-125	8R0ML	8.0 μ H±20%	11.7(9.8)	2.9(3.6)	2.6(3.2)	7.5
CDEP85NP-1ØØMC-125	100ML	10.0 μ H±20%	15.1(12.6)	2.6(3.2)	2.2(2.8)	6.5

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Electrical characteristics - Standard Type

Part No.	Stamp	Inductance [Within] ※1	D.C.R.(mΩ) [Max.] (at 20°C)	Saturation current (A)※2		Temperature Rise current (A)※3
				(at 20°C)	(at 105°C)	
CDEP85NP-R35MC-88	R35MS	0.35 μH ± 20%	2.5(2.1)	18.4(23.0)	15.2(19.0)	18.0
CDEP85NP-R80MC-88	R80MS	0.8 μH ± 20%	3.4(2.8)	11.4(14.2)	10.0(12.5)	17.0
CDEP85NP-1R4MC-88	1R4MS	1.4 μH ± 20%	4.8(4.0)	8.8(11.0)	7.6(9.5)	13.5
CDEP85NP-2R2MC-88	2R2MS	2.2 μH ± 20%	7.0(5.9)	7.0(8.7)	5.8(7.3)	10.8
CDEP85NP-3R2MC-88	3R2MS	3.2 μH ± 20%	8.1(6.8)	5.8(7.2)	5.0(6.2)	9.7
CDEP85NP-4R3MC-88	4R3MS	4.3 μH ± 20%	9.8(8.2)	5.0(6.2)	4.1(5.1)	8.3
CDEP85NP-5R6MC-88	5R6MS	5.6 μH ± 20%	11.7(9.8)	4.3(5.4)	3.6(4.5)	7.5
CDEP85NP-7R1MC-88	7R1MS	7.1 μH ± 20%	15.1(12.6)	3.8(4.8)	3.3(4.1)	6.5

Electrical characteristics - High Power Type

Part No.	Stamp	Inductance [Within] ※1	D.C.R.(mΩ) [Max.] (at 20°C)	Saturation current (A) ※2		Temperature Rise current (A) ※3
				(at 20°C)	(at 105°C)	
CDEP85NP-R20MC-5Ø	R20MH	0.2 μH ± 20%	2.5(2.1)	32.0(40.0)	26.0(32.5)	18.0
CDEP85NP-R45MC-5Ø	R45MH	0.45 μH ± 20%	3.4(2.8)	22.0(27.5)	18.0(22.5)	17.0
CDEP85NP-R80MC-5Ø	R80MH	0.8 μH ± 20%	4.8(4.0)	16.0(20.0)	13.2(16.5)	13.5
CDEP85NP-1R2MC-5Ø	1R2MH	1.2 μH ± 20%	7.0(5.9)	12.8(16.0)	10.6(13.2)	10.8
CDEP85NP-1R8MC-5Ø	1R8MH	1.8 μH ± 20%	8.1(6.8)	10.8(13.5)	8.8(11.0)	9.7
CDEP85NP-2R4MC-5Ø	2R4MH	2.4 μH ± 20%	9.8(8.2)	9.3(11.6)	7.7(9.6)	8.3
CDEP85NP-3R2MC-5Ø	3R2MH	3.2 μH ± 20%	11.7(9.8)	8.0(10.0)	6.5(8.1)	7.5
CDEP85NP-4R0MC-5Ø	4R0MH	4.0 μH ± 20%	15.1(12.6)	7.2(9.0)	5.9(7.4)	6.5

※1. Measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of it's nominal value.

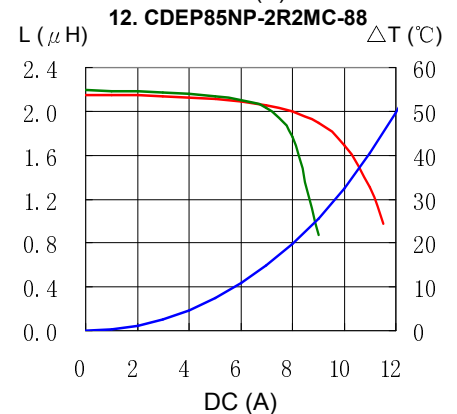
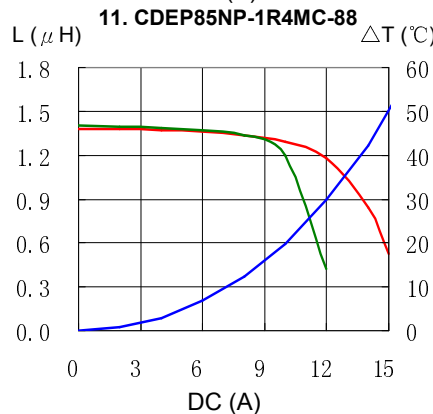
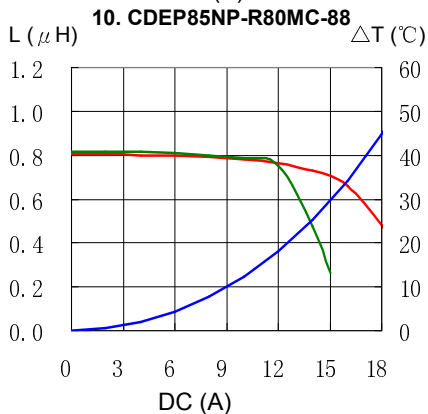
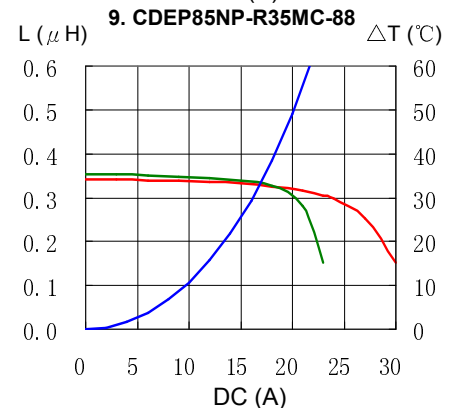
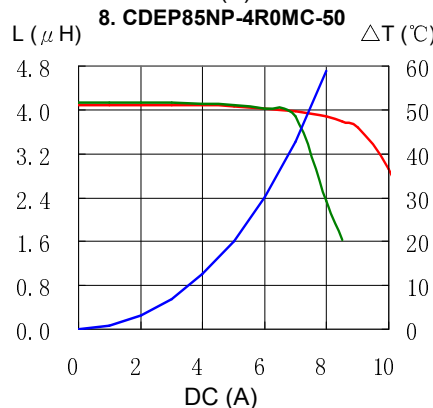
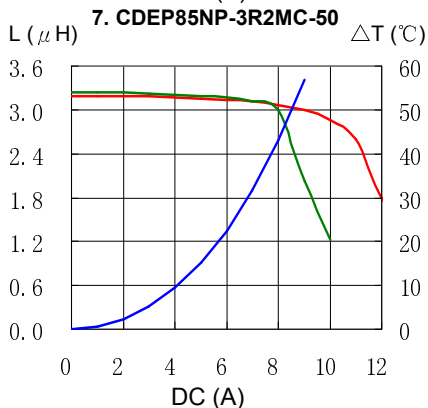
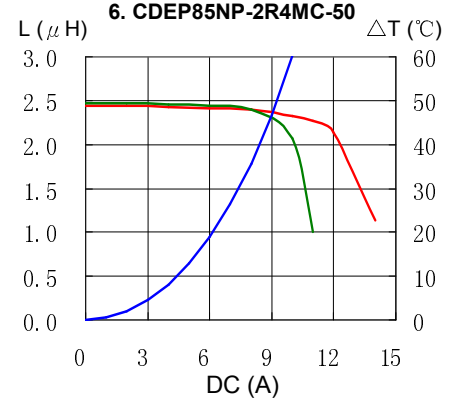
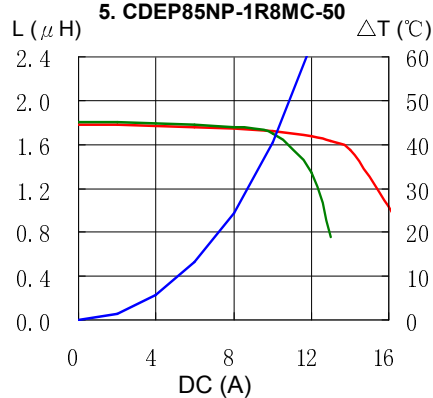
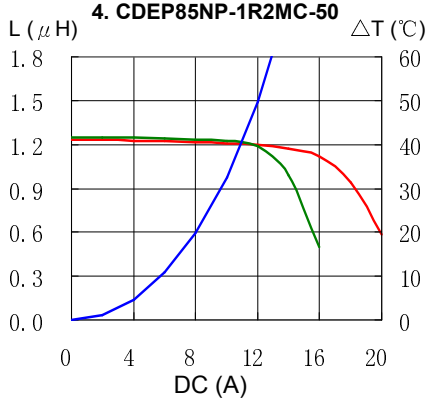
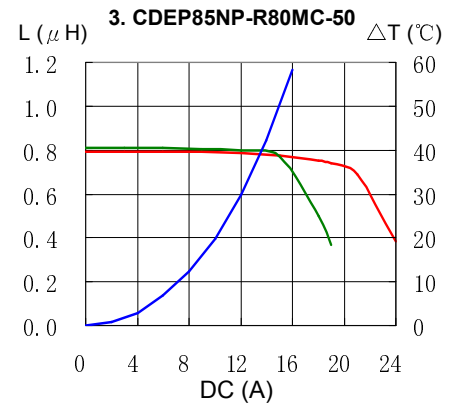
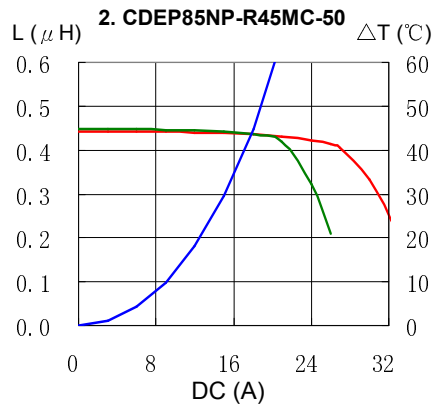
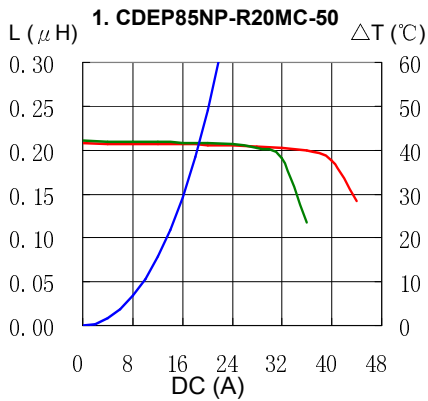
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

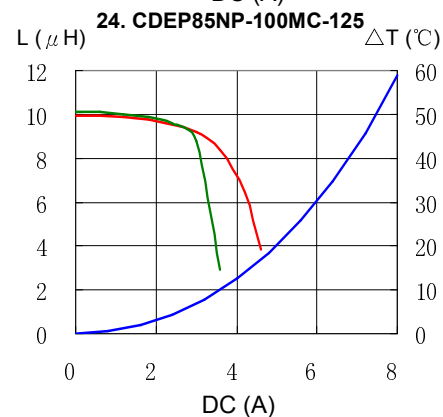
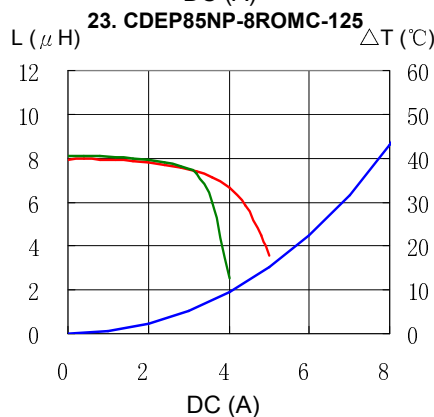
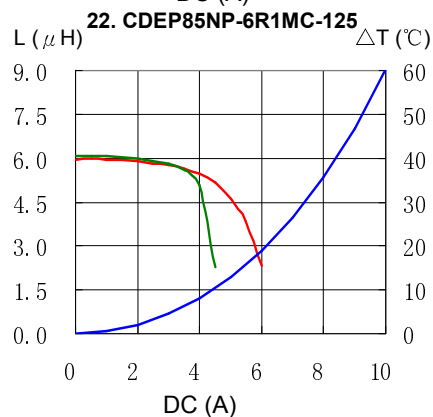
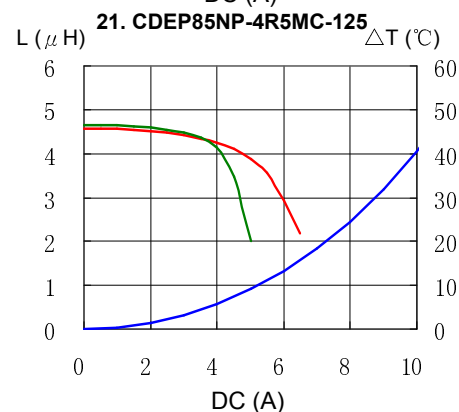
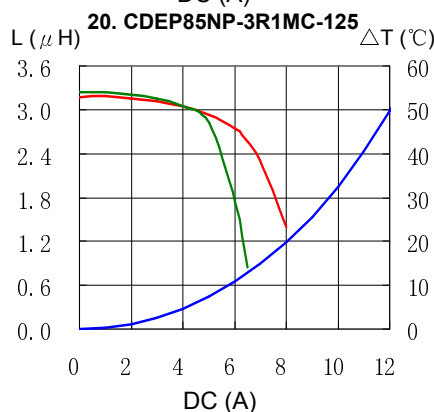
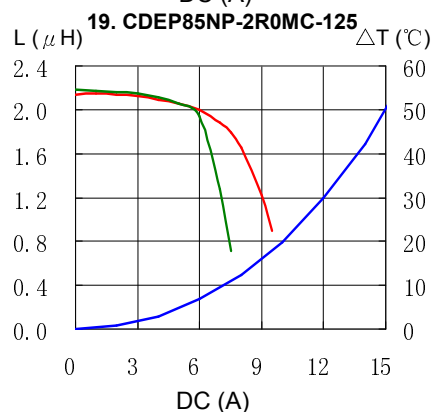
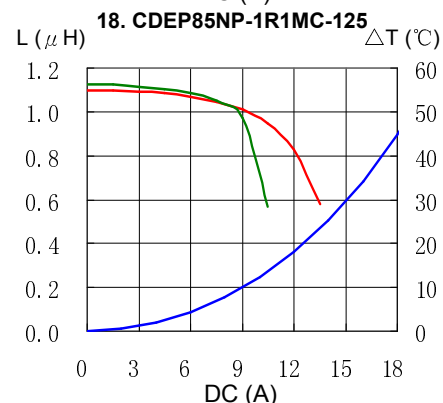
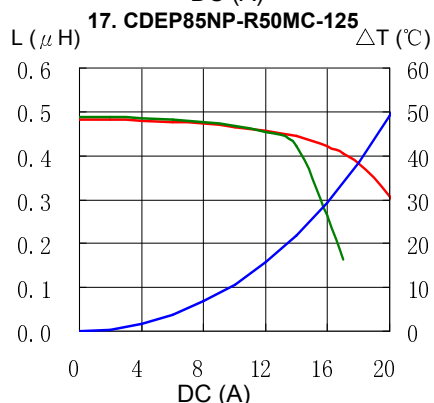
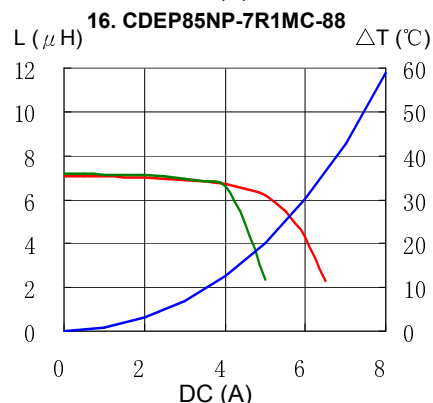
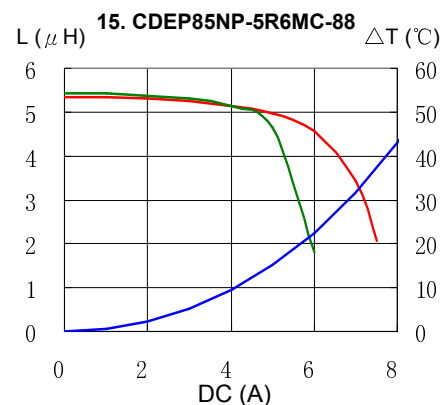
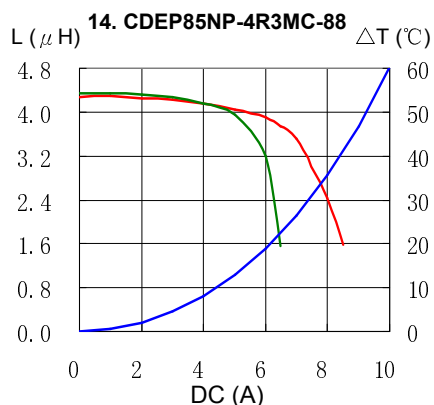
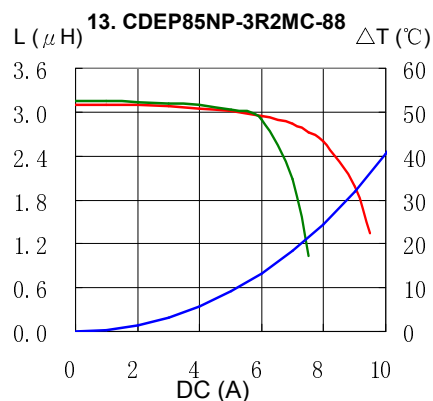
— L (20°C) — L (105°C) — ΔT





Saturation Current & Temperature Rise Graph

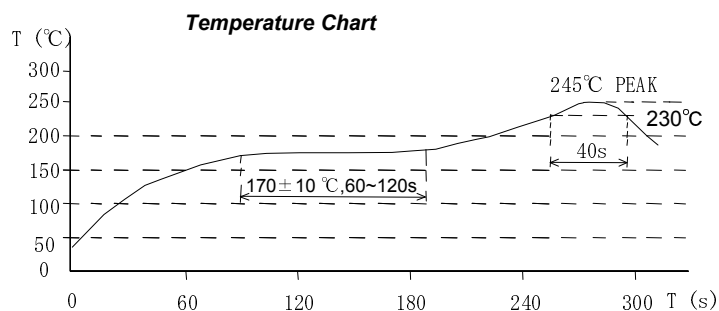
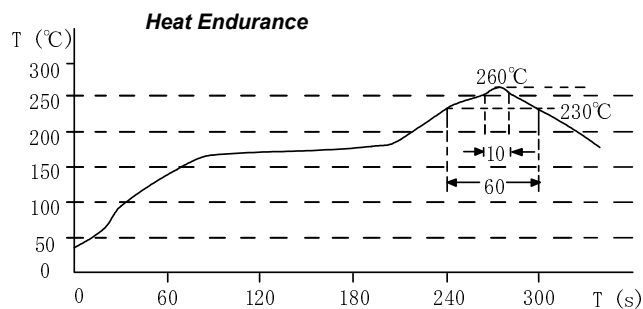
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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- Подбор аналогов;
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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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