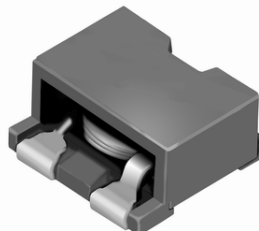


SMD Power Inductor CEP125



Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 12.9 × 12.9 × 5.6 mm Max.
- Product weight: 2.7g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- 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.

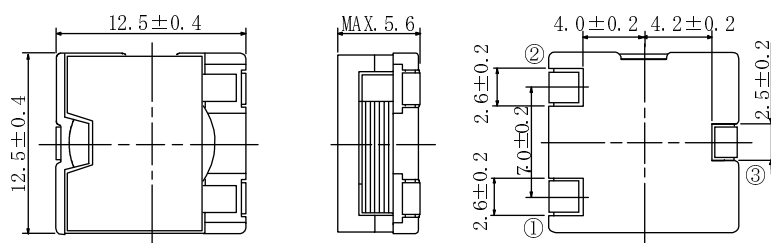
Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 500pcs per reel

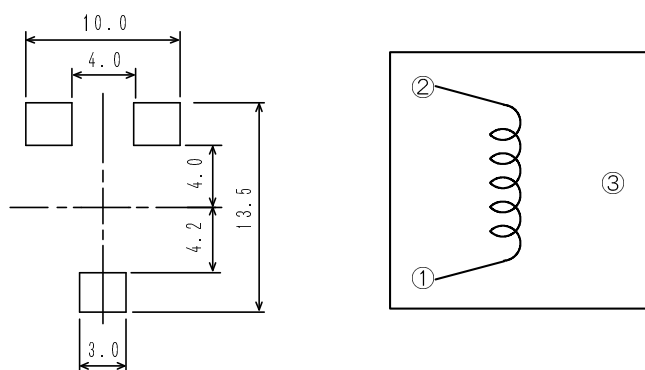
Applications

- Ideally used in portable computer CPU and other power supply.

Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor CEP125



Electrical Characteristics - 1

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (Typ.) (at 20°C)	SATURATION CURRENT(A) ※2		TEMPERATURE RISE CURRENT (A) ※3
				(at 20°C)	(at105°C)	
CEP125NP-1R5MC	1R5M	1.5 μH ±20%	2.5(2.1)	14.0	11.8	16.5
CEP125NP-2R5MC	2R5M	2.5 μH ±20%	3.4(2.8)	10.0	8.8	15.5
CEP125NP-4R0MC	4R0M	4.0 μH ±20%	5.4(4.5)	8.3	7.2	12.5
CEP125NP-6R0MC	6R0M	6.0 μH ±20%	8.0(6.6)	6.7	5.8	9.9
CEP125NP-8R2MC	8R2M	8.2 μH ±20%	11.4(9.5)	5.8	5.1	8.2
CEP125NP-100MC	100M	10.0 μH ±20%	13.5(11.2)	5.0	4.6	7.6

Electrical Characteristics - 2

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (Typ.) (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3
				(at 20°C)	(at105°C)	
CEP125NP-1R0MC-H	1R0MH	1.0 μH ±20%	2.5(2.1)	20.0	17.4	16.5
CEP125NP-1R8MC-H	1R8MH	1.8 μH ±20%	3.4(2.8)	15.3	12.9	15.5
CEP125NP-2R8MC-H	2R8MH	2.8 μH ±20%	5.4(4.5)	12.3	10.2	12.5
CEP125NP-4R0MC-H	4R0MH	4.0 μH ±20%	8.0(6.6)	10.3	8.6	9.9
CEP125NP-5R6MC-H	5R6MH	5.6 μH ±20%	11.4(9.5)	8.8	7.7	8.2
CEP125NP-7R2MC-H	7R2MH	7.2 μH ±20%	13.5(11.2)	7.8	6.6	7.6

Electrical Characteristics - 3

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (Typ.) (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3
				(at 20°C)	(at105°C)	
CEP125NP-0R3NC-U	0R3NU	0.35 μH ±30%	1.8(1.5)	35.0	32.0	18.5
CEP125NP-0R8NC-U	0R8NU	0.8 μH ±30%	2.5(2.1)	25.7	21.8	16.5
CEP125NP-1R4MC-U	1R4MU	1.4 μH ±20%	3.4(2.8)	19.2	16.4	15.5
CEP125NP-2R2MC-U	2R2MU	2.2 μH ±20%	5.4(4.5)	14.8	12.8	12.5
CEP125NP-3R2MC-U	3R2MU	3.2 μH ±20%	8.0(6.6)	12.8	10.9	9.9
CEP125NP-4R3MC-U	4R3MU	4.3 μH ±20%	11.4(9.5)	11.0	9.1	8.2
CEP125NP-5R6MC-U	5R6MU	5.6 μH ±20%	13.5(11.2)	9.5	7.8	7.6

※1. Measuring condition: at 100kHz.

※2. Saturation current :The value of D.C. current when the inductance decreases to 65% (while the tolerance is ±30%) or 75% (while the tolerance is ±20%) of it's nominal.

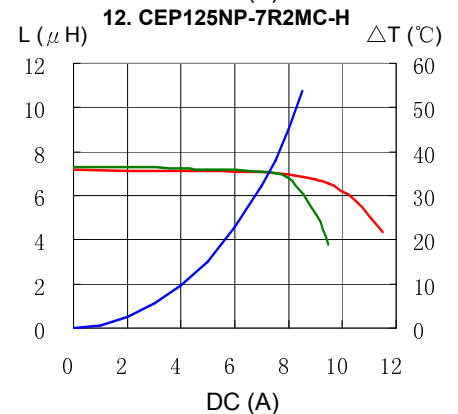
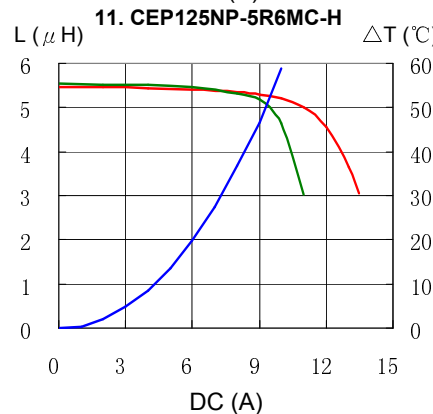
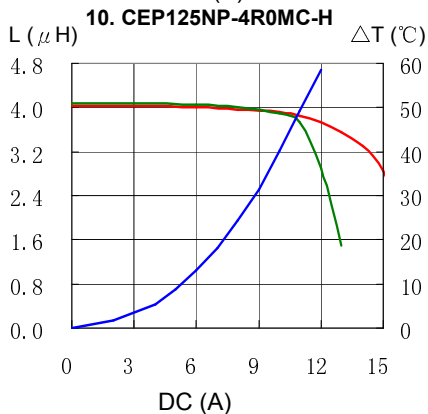
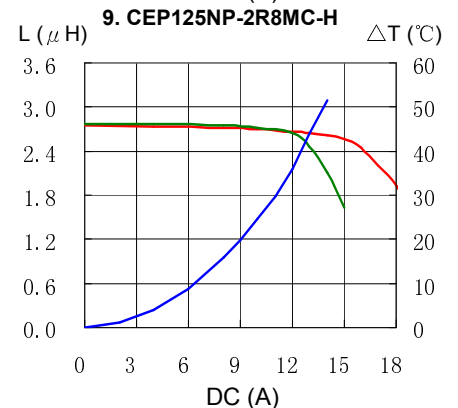
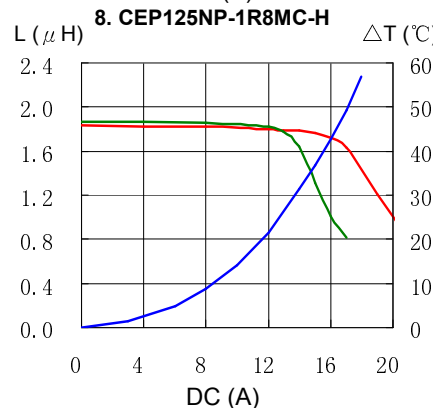
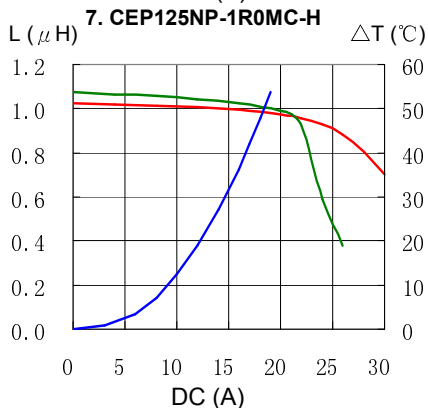
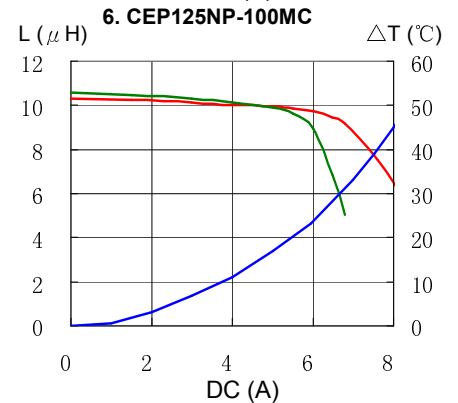
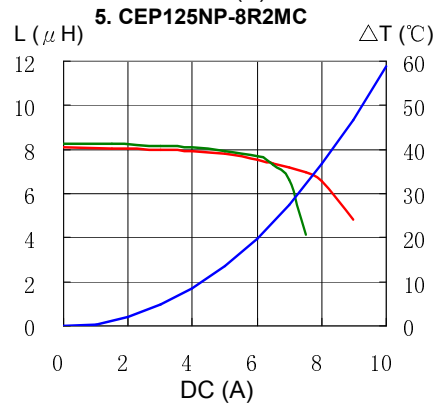
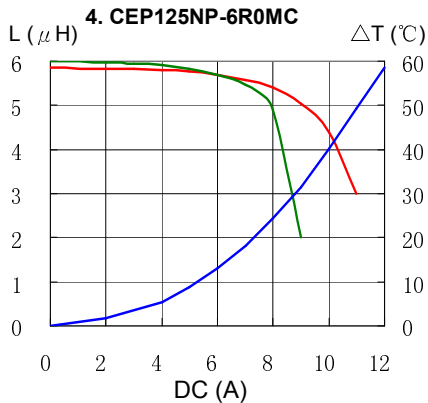
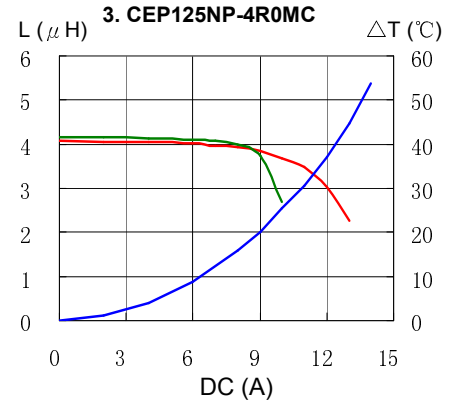
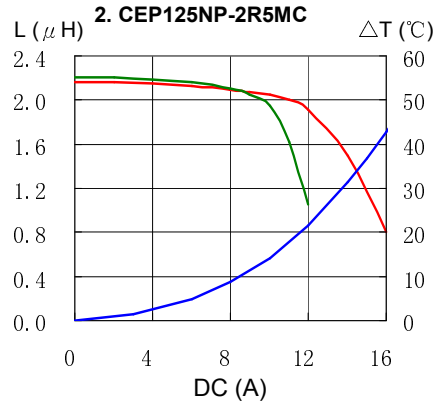
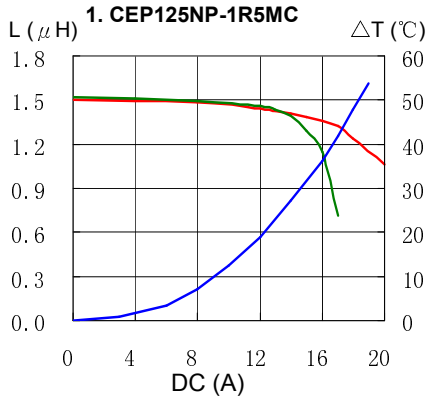
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

SMD Power Inductor CEP125



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

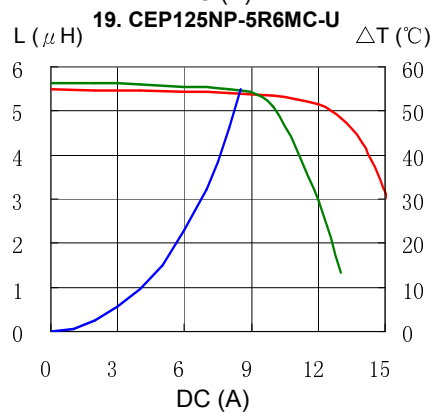
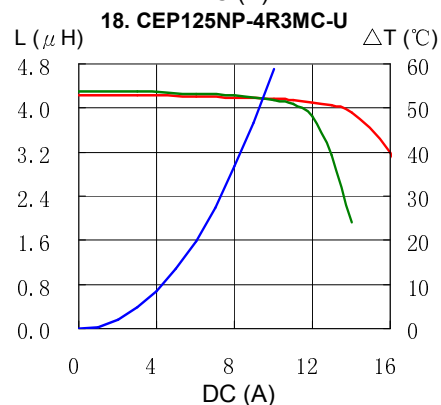
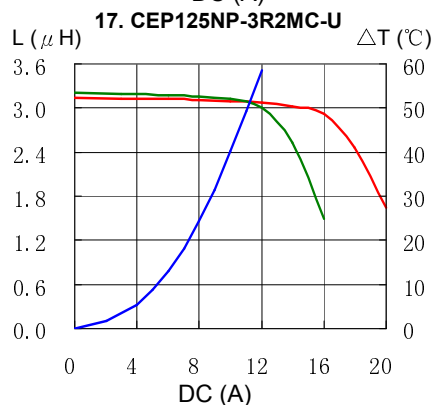
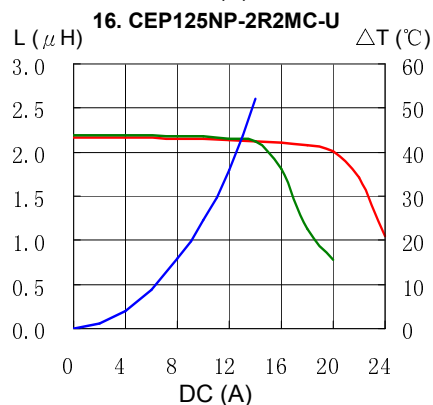
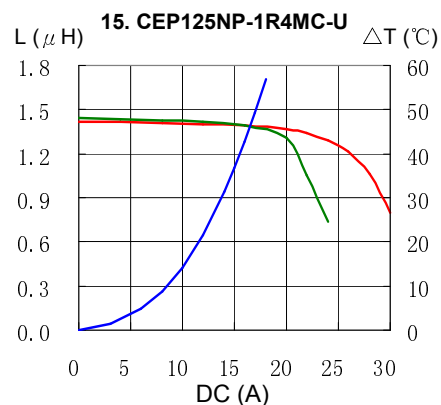
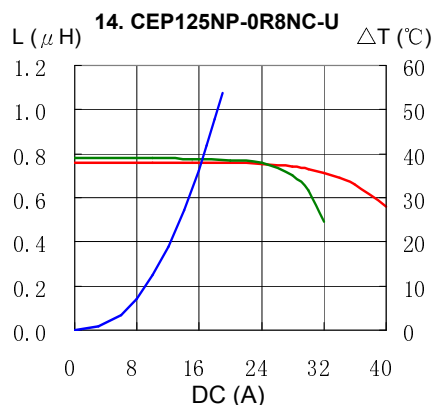
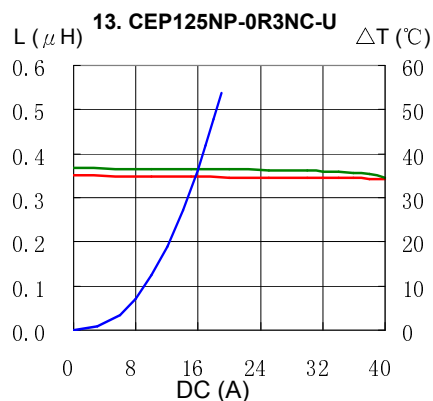


SMD Power Inductor CEP125



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



SMD Power Inductor CEP125



Solder Reflow Condition



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Hong Kong

Tel. +852-2880-6781
FAX. +852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel. +81-48-691-7300
FAX. +81-48-691-7340
sales@jp.sumida.com

Chicago

Tel. +1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel. +86-21-5836-3299
FAX. +86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel. +82-2-6237-0777
FAX. +82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel. +49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel. +86-755-8291-0228
FAX. +86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel. +65-6296-3388
FAX. +65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel. +49-9181-4509-110
FAX. +49-9181-4509-310
info@comp@eu.sumida.com

Taipei

Tel. +886-2-8751-2737
FAX. +886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel. +1-408-321-9660
FAX. +1-408-321-9308
sales@us.sumida.com

AMEYA360

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Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com