

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 12.8 × 12.8 × 3.5 mm Max.
- Product weight: 1.5g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

- Operating temperature range: -40°C~+100°C
(including coil's self temperature rise)
- Storage temperature range: -40°C~+100°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 12V 100Ah battery showing front, side, and top views with dimensions.

Front View (Left): Shows the battery terminals and internal structure. The width is labeled as $MAX. 3.5$.

Side View (Middle): Shows the battery profile. The height is labeled as 8.9 ± 0.3 .

Top View (Right): Shows the battery top with dimensions:

- Overall width: 12.5 ± 0.3
- Overall height: 12.5 ± 0.3
- Terminal width (left): 1.70 ± 0.2
- Terminal width (right): 1.60 ± 0.2
- Internal width (between terminals): 9.2 ± 0.3
- Internal height (between terminals): 10.6 ± 0.3
- Terminal height (left): 2
- Terminal height (right): 3

PART No.	STAMP	INDUCTANCE [WITHIN] ※ 1	D.C.R.(m Ω) [MAX.] (Typ) (at 20℃)	RATED CURRENT (A) ※2
CEP123NP-1R2MC	1R2	1.2 μH ± 20%	5.83(4.86)	10.0
CEP123NP-2R0MC	2R0	2.0 μH ± 20%	7.40(6.14)	8.0
CEP123NP-3R2MC	3R2	3.2 μH ± 20%	14.20(11.84)	5.8
CEP123NP-4R6MC	4R6	4.6 μH ± 20%	17.10(14.26)	5.2
CEP123NP-6R3MC	6R3	6.3 μH ± 20%	20.26(16.88)	4.6
CEP123NP-8R0MC	8R0	8.0 μH ± 20%	23.00(19.18)	4.0

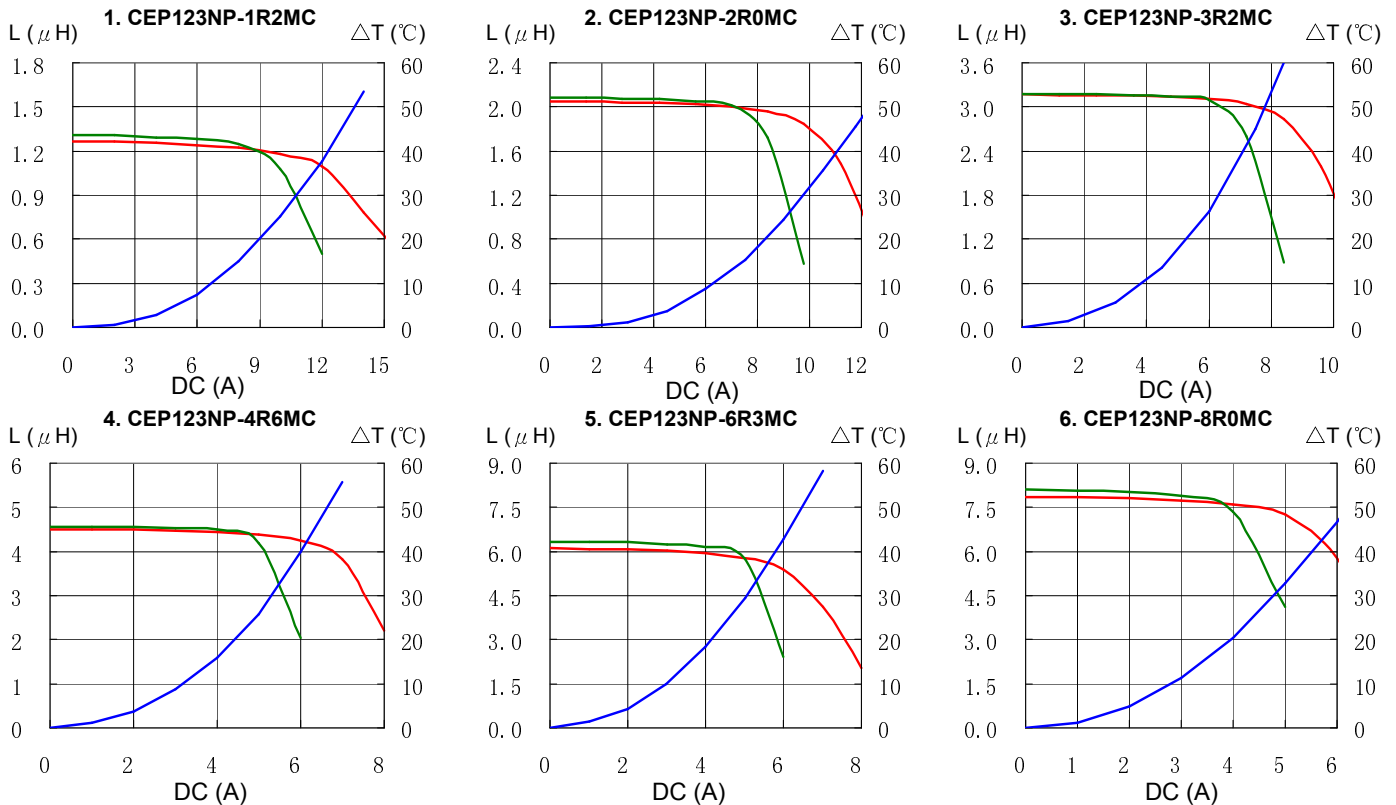
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower.

SMD Power Inductor CEP123

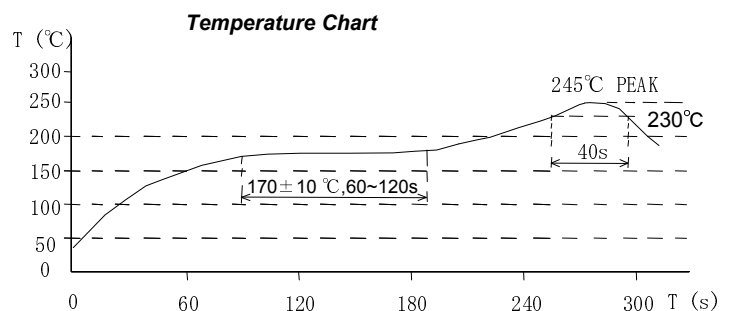
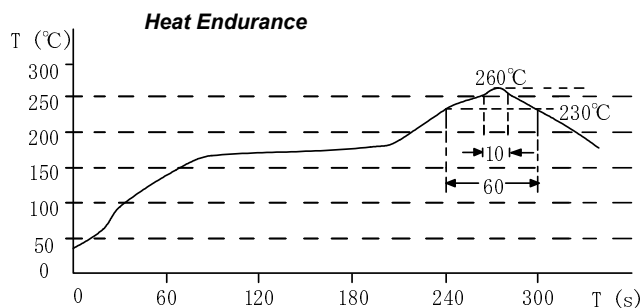


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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
infocomp@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