

SMD Power Inductor

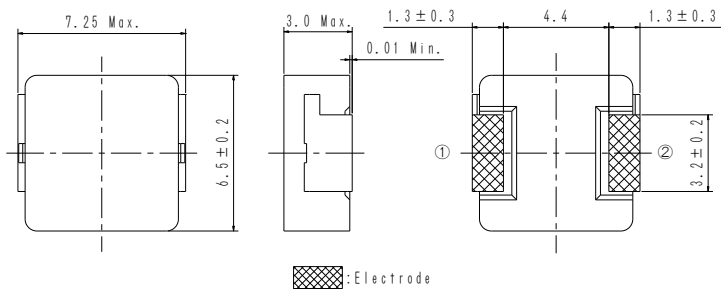
CDMC6D28



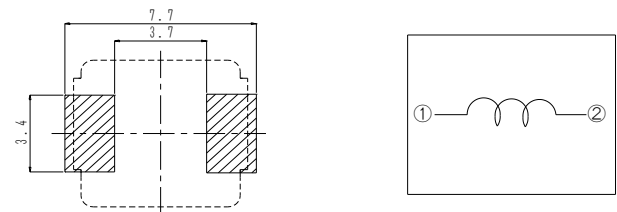
Description

- Metal compound molding type construction.
- Magnetically shielded.
- L × W × H: 7.25 × 6.7 × 3.0 mm Max.
- Product weight:0.8 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: -40℃ ~ +125℃ (including coil's self temperature rise)
- Storage temperature range: -40℃ ~ +85℃
- Solder reflow temperature: 260 ℃ peak.

Packaging

- Carrier tape and reel packaging
- 11.8" diameter reel
- 1000pcs per reel

Applications

- Ideally used in low voltage-high current laptop PC & sever power supply.

Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) (at 20℃) ※2	Temperature rise current (A) ※3
CDMC6D28NP-R20MC	R20	0.20 ± 20%	2.5 (2.1)	21.7 (27.2)	17.4 (19.8)
CDMC6D28NP-R30MC	R30	0.30 ± 20%	3.2 (2.7)	15.4 (19.3)	16.1 (18.2)
CDMC6D28NP-R47MC	R47	0.47 ± 20%	4.2 (3.5)	13.6 (17.0)	14.0 (15.9)
CDMC6D28NP-R68MC	R68	0.68 ± 20%	5.4 (4.5)	11.3 (14.2)	12.1 (13.7)
CDMC6D28NP-1R0MC	1R0	1.0 ± 20%	8.8 (7.3)	8.8 (11.0)	9.5 (10.8)
CDMC6D28NP-1R5MC	1R5	1.5 ± 20%	12.5 (10.4)	7.3 (9.2)	7.6 (8.6)
CDMC6D28NP-2R2MC	2R2	2.2 ± 20%	19.3 (16.1)	6.0 (7.6)	6.0 (6.8)
CDMC6D28NP-3R3MC	3R3	3.3 ± 20%	30.6 (25.5)	5.0 (6.3)	4.9 (5.5)
CDMC6D28NP-4R7MC	4R7	4.7 ± 20%	46.4 (38.7)	4.3 (5.4)	3.7 (4.2)

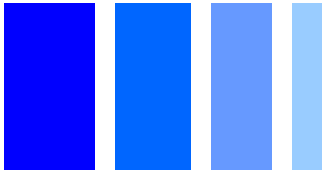
※1. Measuring condition: at 1MHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

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

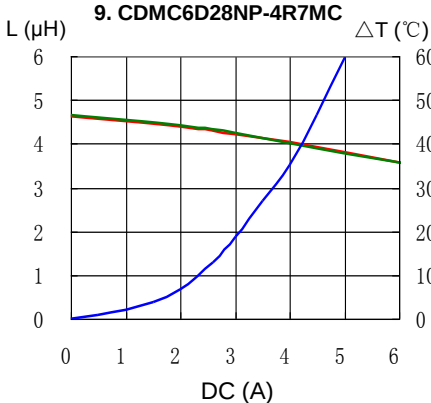
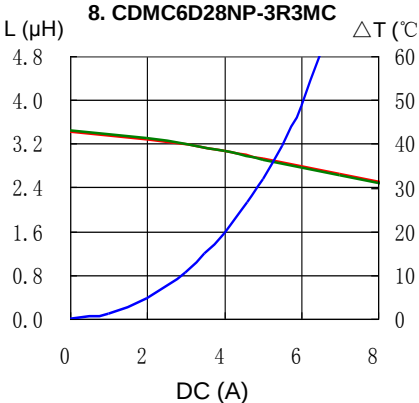
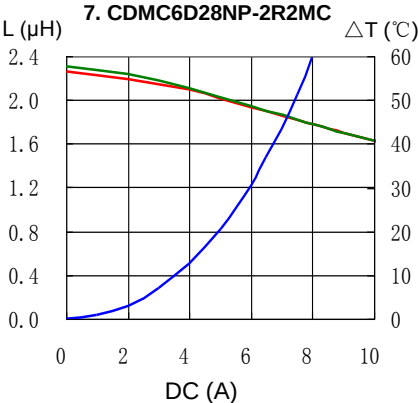
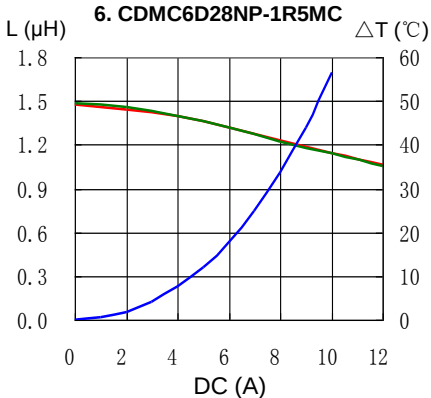
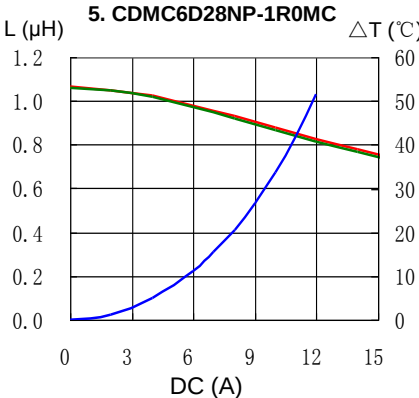
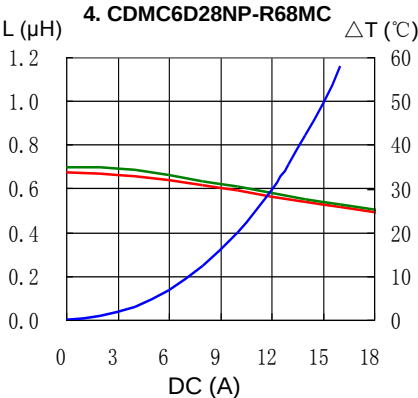
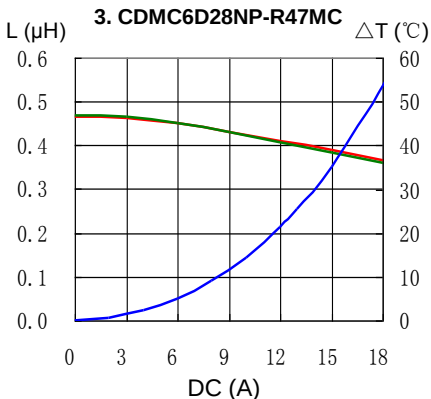
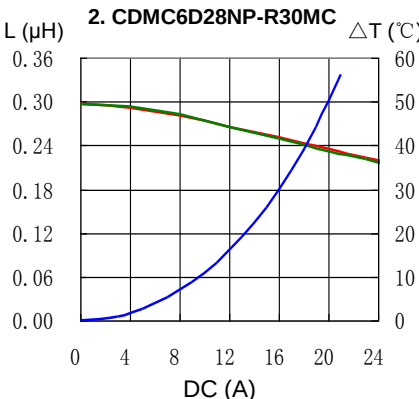
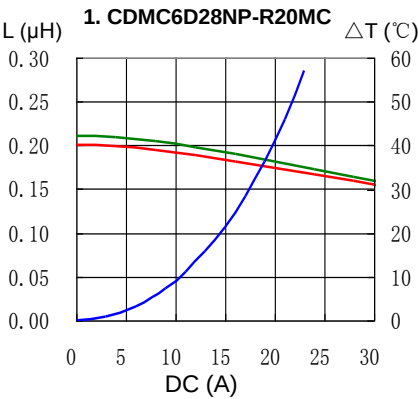
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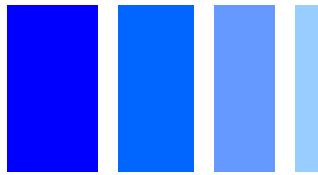


Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

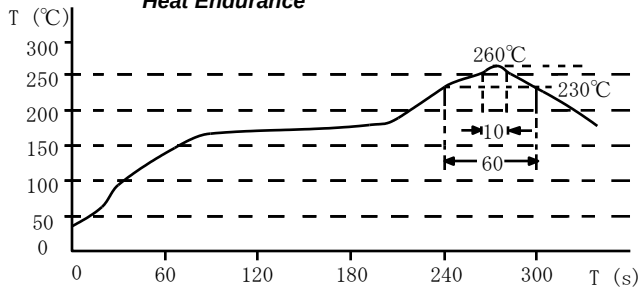


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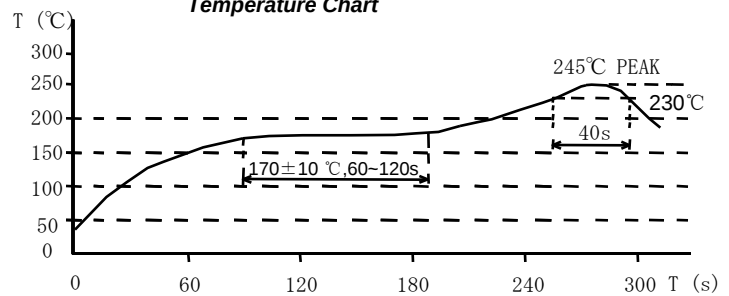


Solder Reflow Condition

Heat Endurance



Temperature Chart



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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
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