



**THE DATASHEET OF
CDMC8D28NP-1R2MC**



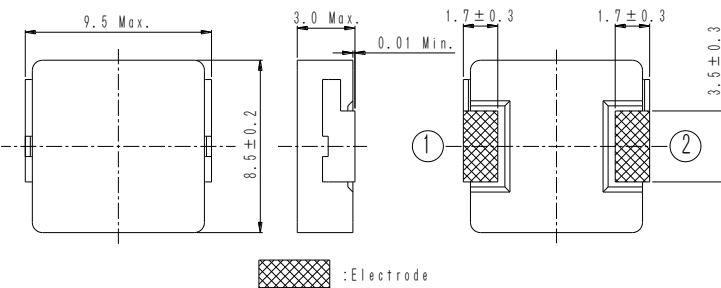
SMD Power Inductor CDMC8D28



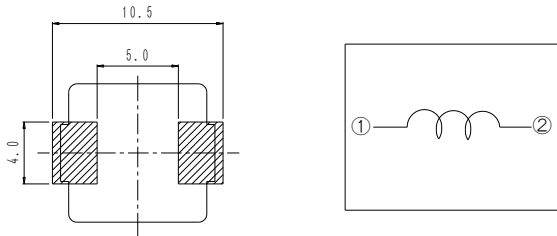
Description

- Metal compound molding type construction.
- Magnetically shielded.
- L × W × H: 9.5 × 8.7 × 3.0 mm Max.
- Product weight: 1.2 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

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

Packaging

- Carrier tape and reel packaging.
- 13.0" 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°C)	Saturation current (A) (at 20°C) ※2	Temperature rise current (A) ※3
CDMC8D28NP-R18MC	R18	0.18 ± 20%	1.6(1.33)	28.7(35.9)	25.8
CDMC8D28NP-R39MC	R39	0.39 ± 20%	2.8(2.32)	19.8(24.7)	19.9
CDMC8D28NP-R68MC	R68	0.68 ± 20%	4.6(3.84)	16.0(20.0)	15.4
CDMC8D28NP-1R2MC	1R2	1.2 ± 20%	7.0(5.80)	12.2(15.3)	12.9
CDMC8D28NP-1R8MC	1R8	1.8 ± 20%	12.6(10.5)	9.4(11.8)	9.3
CDMC8D28NP-2R2MC	2R2	2.2 ± 20%	16.1(13.4)	8.8(11.0)	8.1
CDMC8D28NP-3R3MC	3R3	3.3 ± 20%	22.2(18.5)	7.0(8.8)	7.3
CDMC8D28NP-3R9MC	3R9	3.9 ± 20%	24.1(20.1)	6.4(8.0)	7.1

※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.

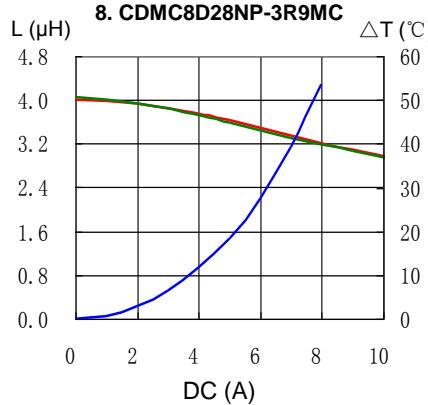
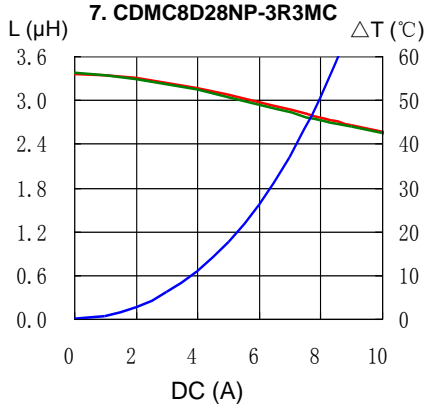
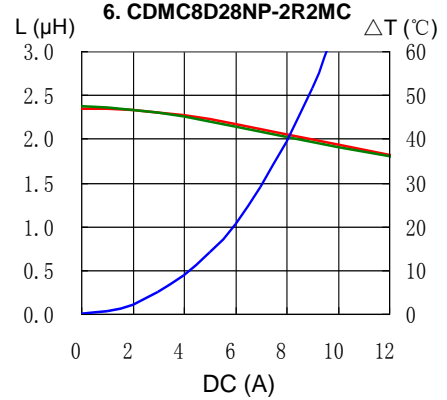
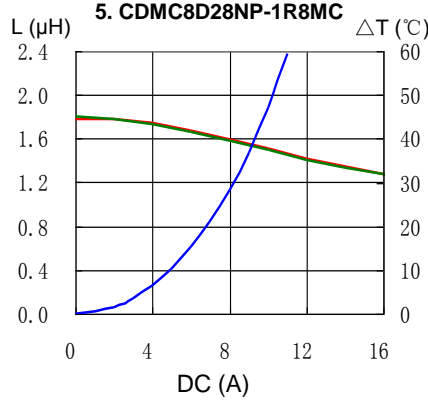
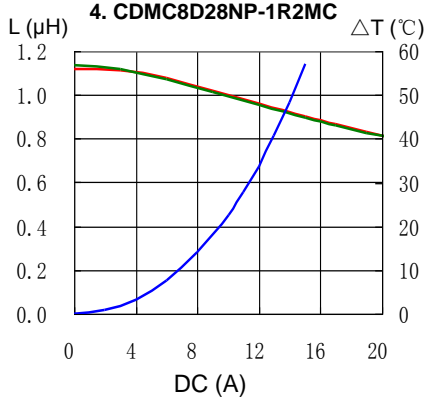
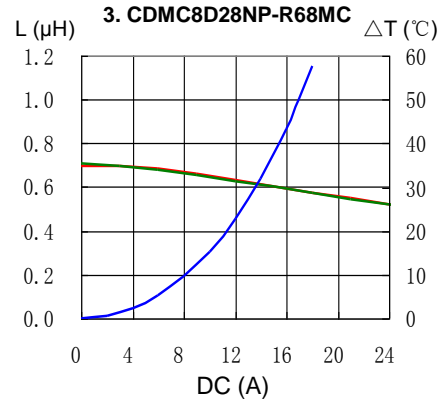
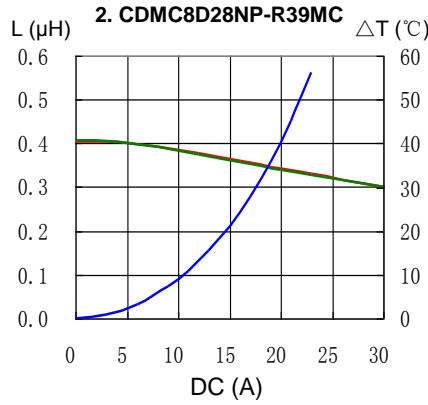
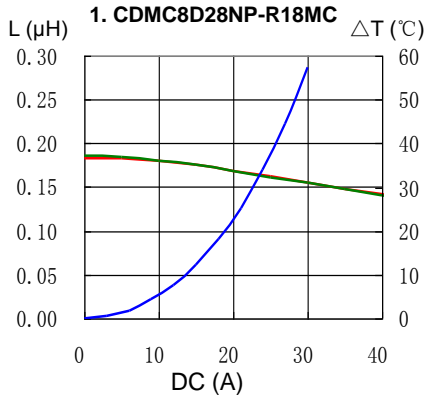
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C(Ta=20°C).

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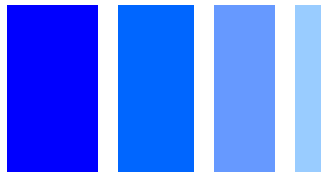


Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

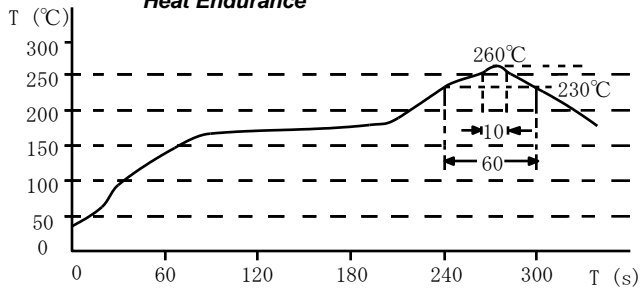


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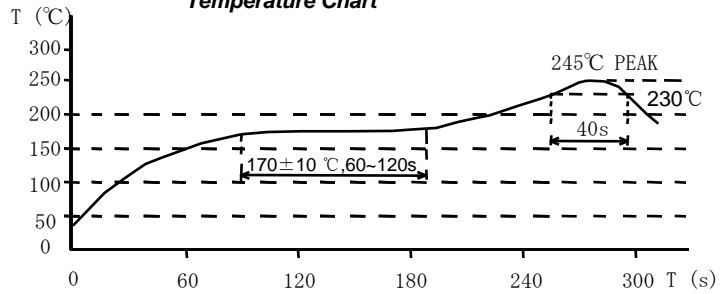


Solder Reflow Condition

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

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