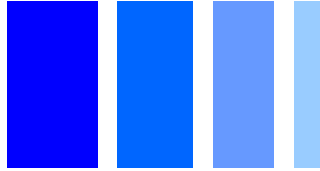


SMD Power Inductor CDMC80D50/AA



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Description

- Metal compound molding type construction.
- Magnetically shielded.
- L × W × H: 8.9 × 8.4 × 5.4 mm Max.
- Product weight 1.9g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Environmental Data

- Operating temperature range: -40°C~+150°C (excluding coil's self temperature rise)
- Storage temperature range: -40°C~+85°C
- Solder reflow temperature: 260 °C peak.

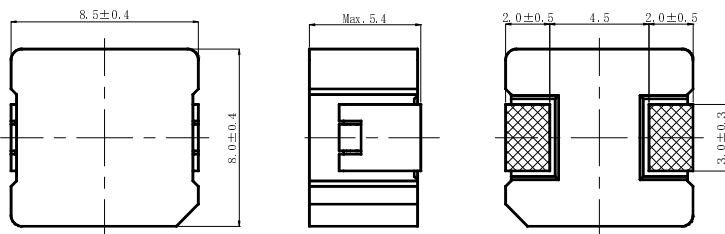
Packaging

- Carrier tape and reel packaging

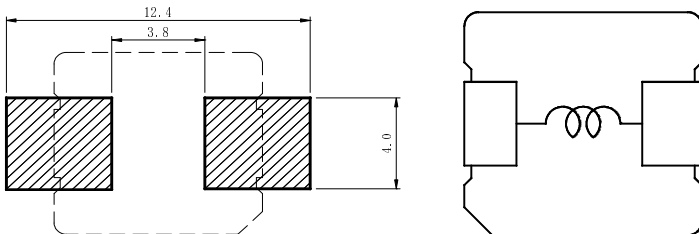
Applications

- Automotive and other high temperature, high reliability application.

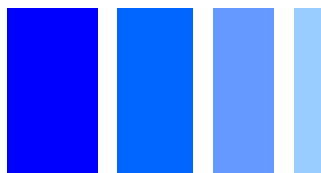
Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor CDMC80D50/AA



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Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [Within] ※1	D.C.R. ($m\Omega$) Max. (Typ.) (at 20°C)	Saturation Current (A) (at 20°C) ※2	Temperature rise current (A) ※3
CDMC80D50/AANP-1R3M	1R3	1.3 \pm 20%	6.4 \pm 10%	14.0	6.2
CDMC80D50/AANP-1R8M	1R8	1.8 \pm 20%	7.6 \pm 10%	12.0	5.8
CDMC80D50/AANP-2R2M	2R2	2.2 \pm 20%	8.8 \pm 10%	11.0	5.5
CDMC80D50/AANP-3R3M	3R3	3.3 \pm 20%	11.5 \pm 10%	9.5	4.9
CDMC80D50/AANP-4R7M	4R7	4.7 \pm 20%	14.5 \pm 10%	8.5	4.5
CDMC80D50/AANP-6R8M	6R8	6.8 \pm 20%	23.1 \pm 10%	7.0	3.7
CDMC80D50/AANP-100M	100	10 \pm 20%	32.5 \pm 10%	6.2	2.9
CDMC80D50/AANP-150M	150	15 \pm 20%	51.2 \pm 10%	4.8	2.3
CDMC80D50/AANP-220M	220	22 \pm 20%	64.3 \pm 10%	4.2	2.0
CDMC80D50/AANP-330M	330	33 \pm 20%	103.4 \pm 10%	3.2	2.0
CDMC80D50/AANP-470M	470	47 \pm 20%	125.6 \pm 10%	2.8	1.4

※1. Measuring condition: at 100 kHz.

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

※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 15^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

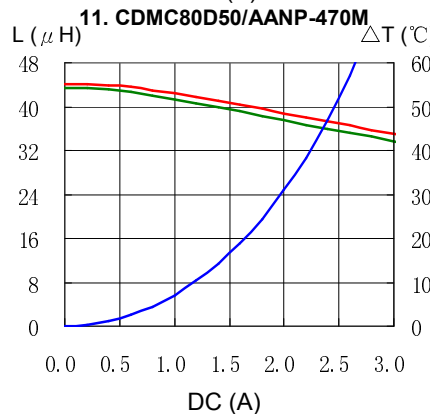
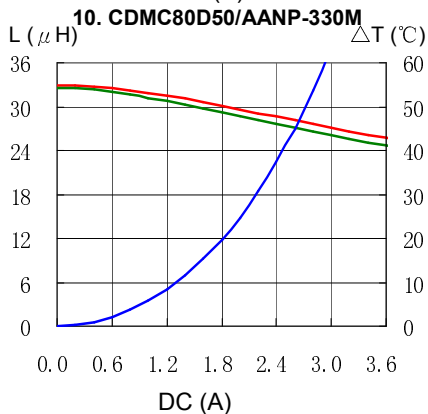
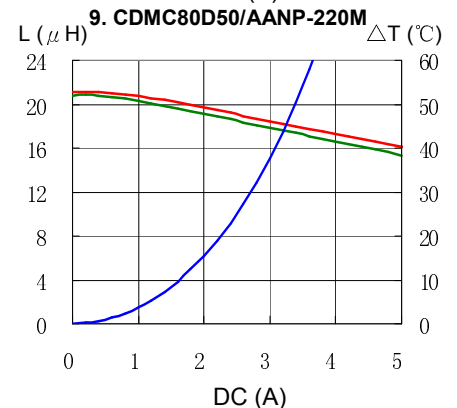
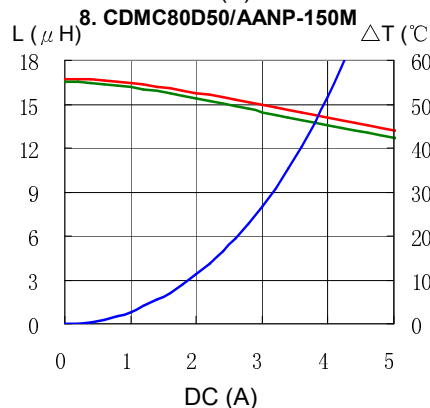
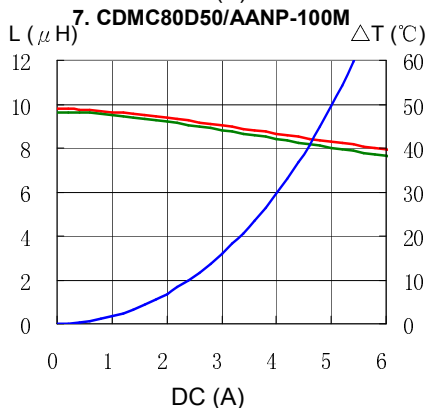
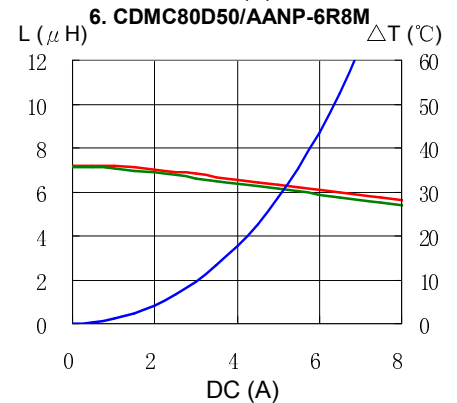
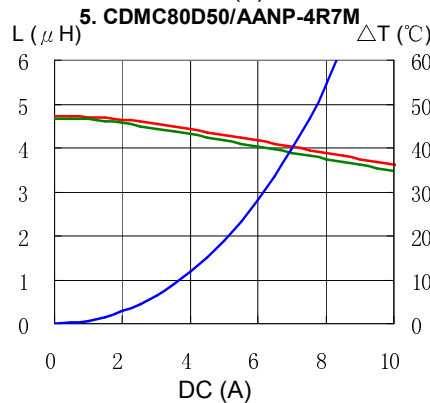
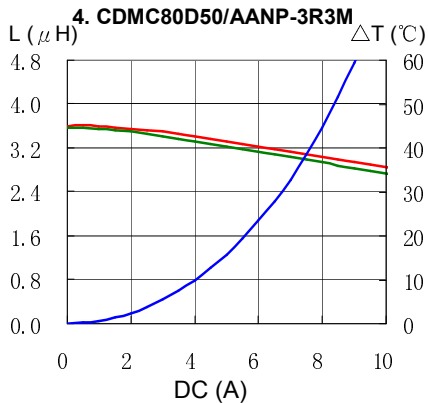
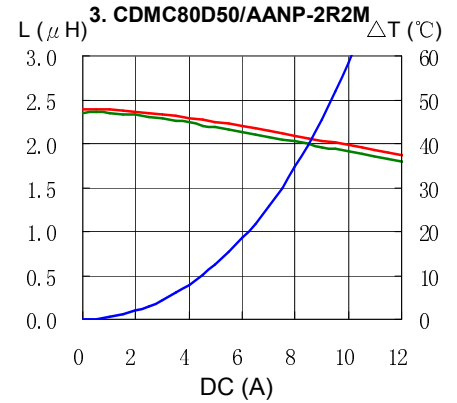
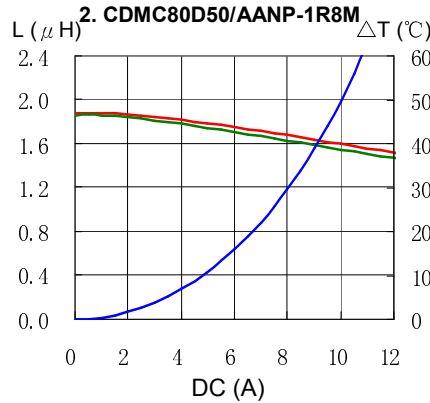
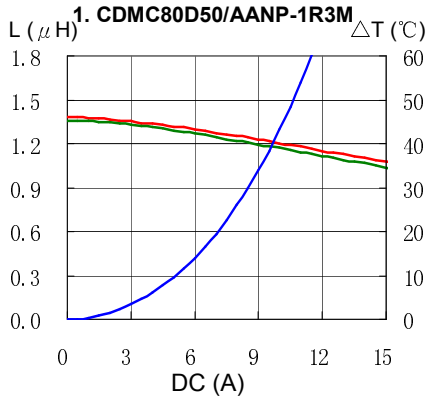
SMD Power Inductor CDMC80D50/AA



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Saturation Current & Temperature Rise Graph

— L (20°C) — L (150°C) — ΔT



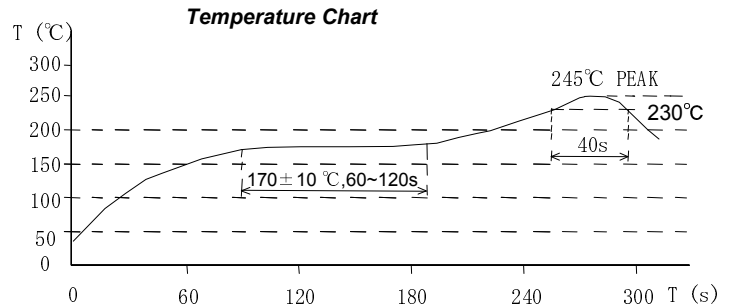
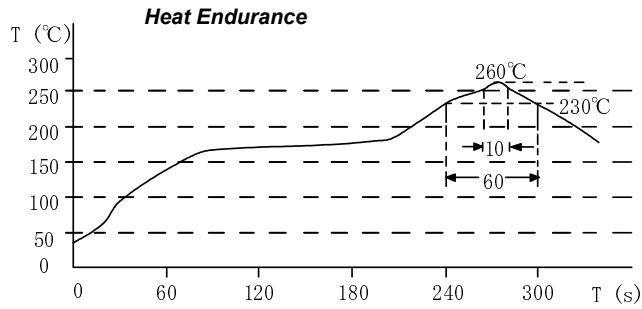
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Solder Reflow Condition



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

Hong Kong

Tel. +852-2880-6688
FAX. +852-2565-9600
sales@hk.sumida.com

Tokyo

Tel. +81-3-5202-7112
FAX. +81-3-5202-7105
sales@jp.sumida.com

Chicago

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

Shanghai

Tel. +86-021-5836-3299
FAX. +86-021-5836-3266
shanghai.sales@cn.sumida.com

Seoul

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

Oberzell

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

Shenzhen

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

Singapore

Tel. +65-6296-3388
FAX. +65-6296-3390
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. +1-408-3219660
FAX. +1-408-321-9308
sales@us.sumida.com