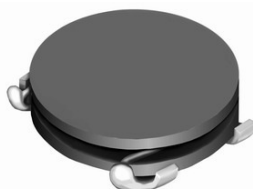


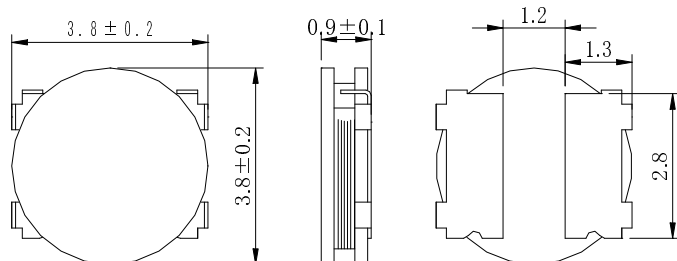
SMD Power Inductor CDH38D09



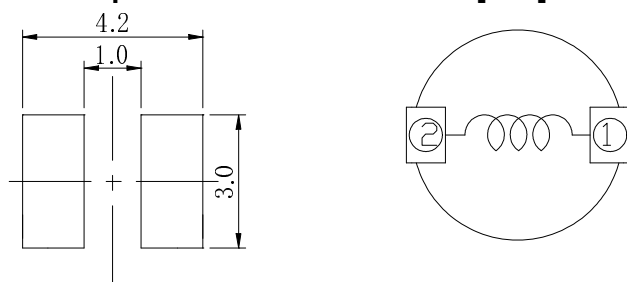
Halogen
Free



Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDH38D09NP-1R2MC	1R2	1.2 ± 20%	0.14(0.11)	1.90	1.60	1.35
CDH38D09NP-1R5MC	1R5	1.5 ± 20%	0.16(0.13)	1.70	1.40	1.25
CDH38D09NP-2R2MC	2R2	2.2 ± 20%	0.19(0.15)	1.50	1.25	1.15
CDH38D09NP-2R7MC	2R7	2.7 ± 20%	0.21(0.17)	1.35	1.15	1.10
CDH38D09NP-3R3MC	3R3	3.3 ± 20%	0.24(0.19)	1.25	1.00	1.00
CDH38D09NP-4R7MC	4R7	4.7 ± 20%	0.30(0.24)	1.10	0.85	0.95
CDH38D09NP-6R8MC	6R8	6.8 ± 20%	0.39(0.31)	0.90	0.72	0.85
CDH38D09NP-8R2MC	8R2	8.2 ± 20%	0.50(0.40)	0.80	0.65	0.75
CDH38D09NP-100MC	100	10.0 ± 20%	0.58(0.47)	0.7	0.60	0.70
CDH38D09NP-150MC	150	15.0 ± 20%	0.87(0.69)	0.60	0.50	0.55
CDH38D09NP-220MC	220	22.0 ± 20%	1.14(0.91)	0.50	0.40	0.45

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 4.0 × 4.0 × 1.0mm Max.
- Product weight: 42mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

- Operating temperature range: $-40^\circ\text{C} \sim +105^\circ\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^\circ\text{C} \sim +105^\circ\text{C}$
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging.
- 7.0" diameter reel
- 1000pcs per reel

Applications

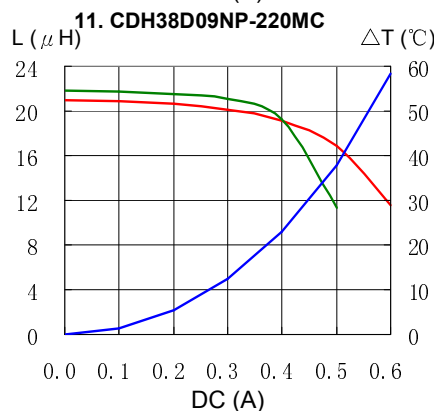
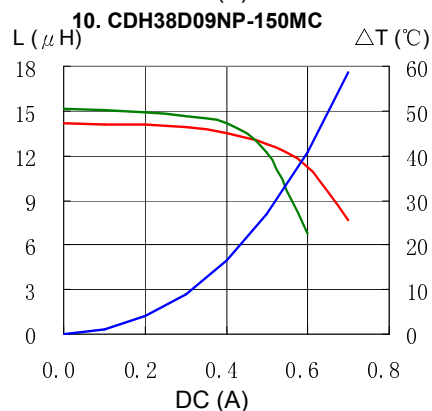
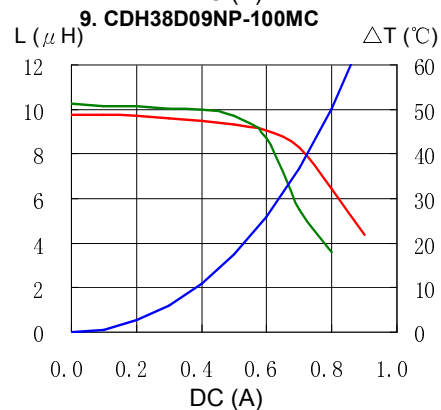
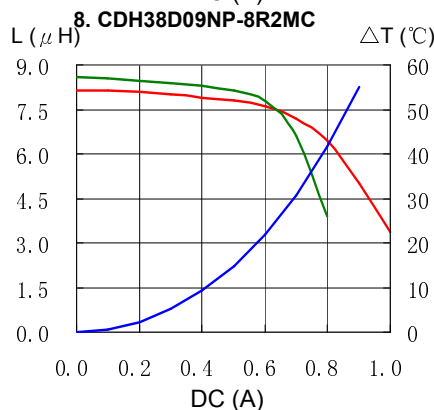
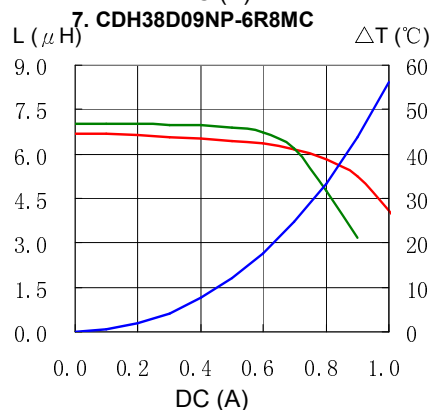
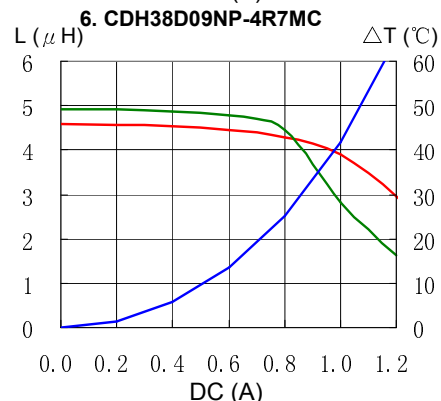
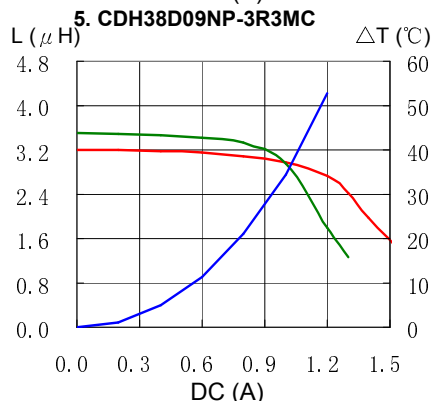
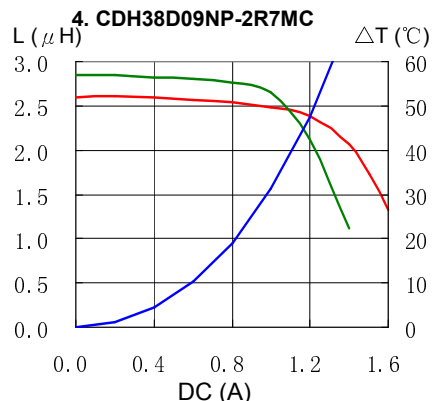
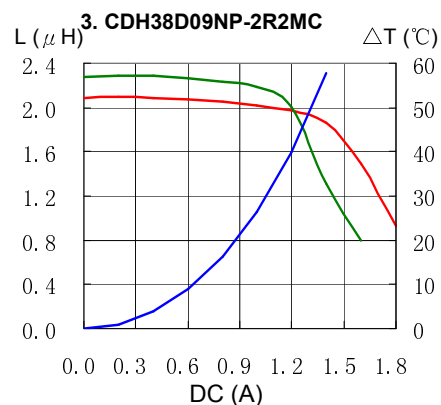
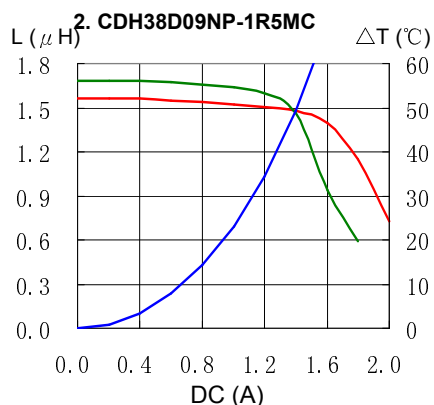
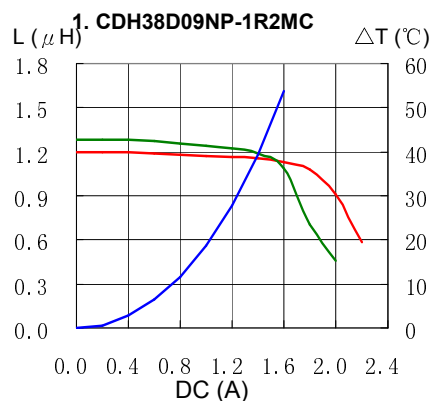
- Ideally used in Mobilephone, PDA, MP3, DSC/ DVC, HDD etc as DC-DC converter inductors.

SMD Power Inductor CDH38D09



Saturation Current & Temperature Rise Graph

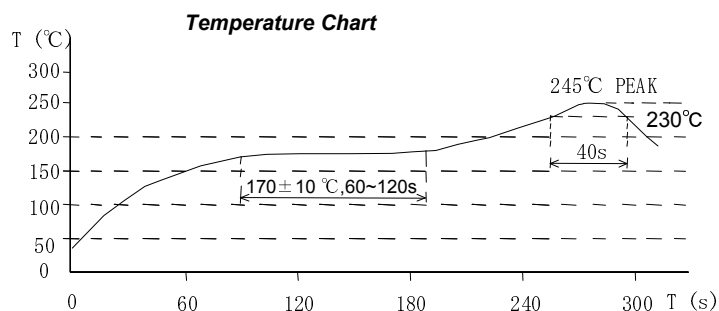
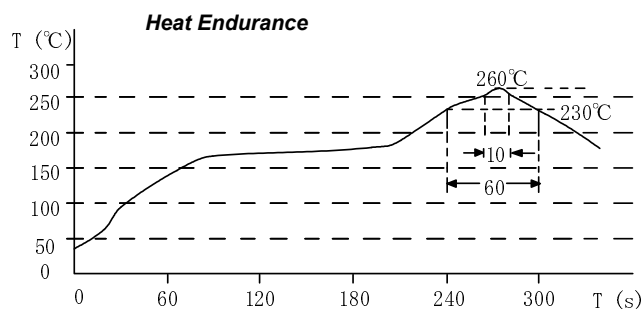
— L (20°C) — L (105°C) — ΔT



SMD Power Inductor CDH38D09



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