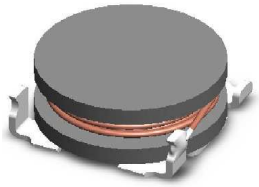
SMD Power Inductor
CDH20D10

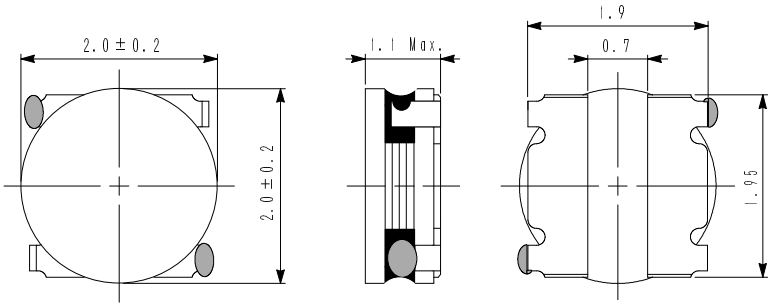
RoHS

Halogen Free

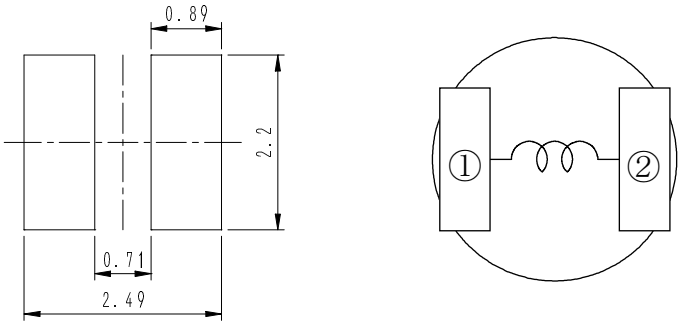


Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 2.2 × 2.2 x1.1 mm Max.
- Product weight: 14mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data
- Operating temperature range:-40℃~+105℃ (including coil's self temperature rise)
- Storage temperature range:-40℃~+105℃
- Solder reflow temperature: 260 ℃ peak.

Packaging
- Carrier tape and reel packaging
- 7.0"diameter reel
- 1500pcs per reel

Applications
- Ideally used in Mobile phone,PDA,MP3, DSC/DVC, Portable DVD etc as DC-DC converter inductors.

Revised: 19-Jul-12

SMD Power Inductor
CDH20D10

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDH20D10NP-R50MC	A	0.5±20%	83m(66m)	2.01(2.52)	1.65(1.84)
CDH20D10NP-R68MC	B	0.68±20%	94m(75m)	1.75(2.19)	1.47(1.68)
CDH20D10NP-R80MC	C	0.8±20%	104m(83m)	1.63(2.04)	1.43(1.62)
CDH20D10NP-1R0MC	D	1.0±20%	0.139(0.111)	1.45(1.82)	1.18(1.34)
CDH20D10NP-1R2MC	E	1.2±20%	0.158(0.126)	1.44(1.80)	1.16(1.32)
CDH20D10NP-1R5MC	F	1.5±20%	0.173(0.138)	1.27(1.59)	1.08(1.22)
CDH20D10NP-1R8MC	G	1.8±20%	0.235(0.188)	1.08(1.36)	0.90(1.02)
CDH20D10NP-2R0MC	J	2.0±20%	0.252(0.201)	1.04(1.30)	0.88(1.01)
CDH20D10NP-2R2MC	K	2.2±20%	0.276(0.221)	1.00(1.26)	0.87(0.98)
CDH20D10NP-2R7MC	L	2.7±20%	0.370(0.295)	0.89(1.12)	0.74(0.82)
CDH20D10NP-3R3MC	M	3.3±20%	0.425(0.339)	0.81(1.02)	0.70(0.79)
CDH20D10NP-3R9MC	P	3.9±20%	0.463(0.37)	0.72(0.92)	0.58(0.65)
CDH20D10NP-4R7MC	R	4.7±20%	0.53(0.42)	0.70(0.87)	0.53(0.61)
CDH20D10NP-5R6MC	T	5.6±20%	0.60(0.48)	0.45(0.56)	0.54(0.62)
CDH20D10NP-6R8MC	Q	6.8±20%	0.74(0.59)	0.42(0.53)	0.48(0.54)

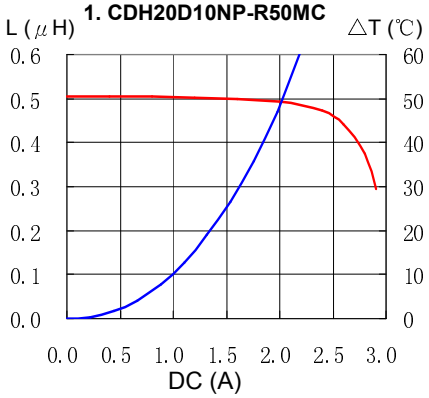
※1. Inductance measuring condition: at 100kHz.
※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.
※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

SMD Power Inductor
CDH20D10

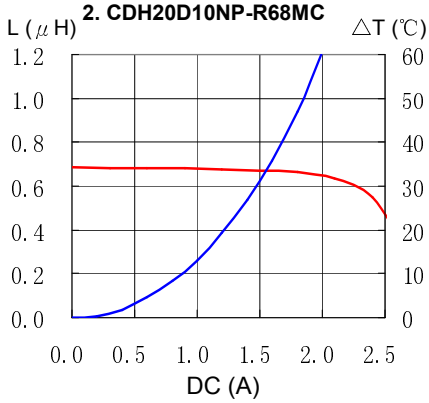
Saturation Current & Temperature Rise Graph

L (20℃) △T

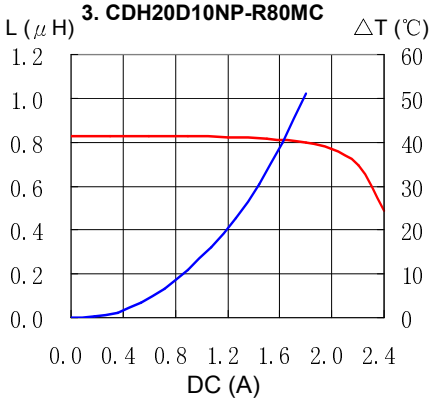
1. CDH20D10NP-R50MC



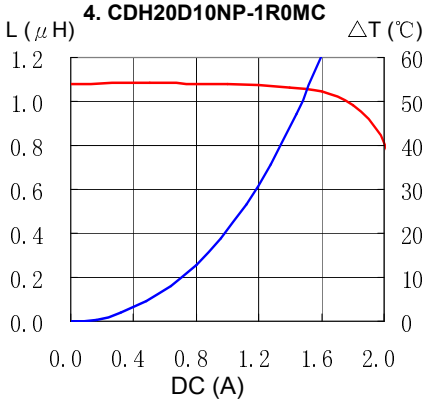
2. CDH20D10NP-R68MC



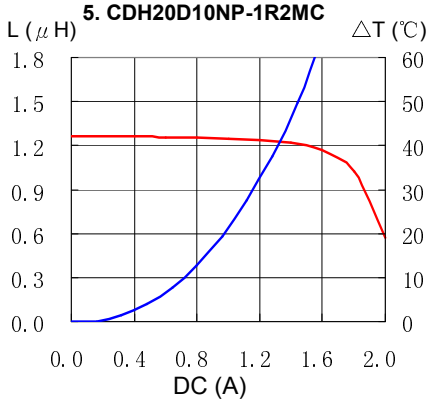
3. CDH20D10NP-R80MC



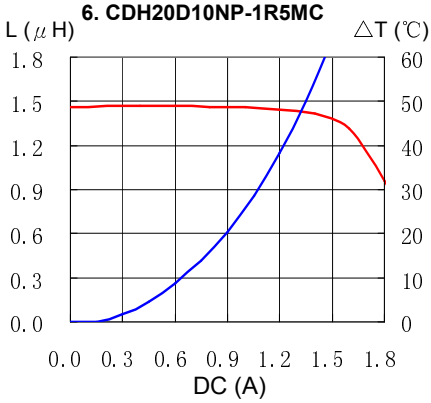
4. CDH20D10NP-1R0MC



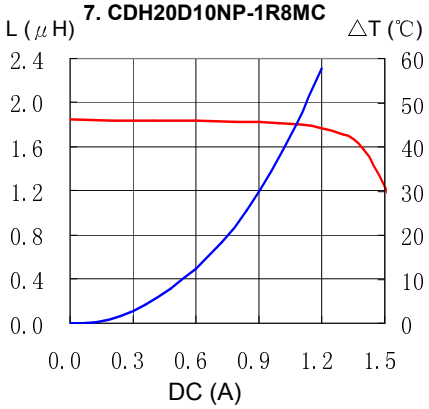
5. CDH20D10NP-1R2MC



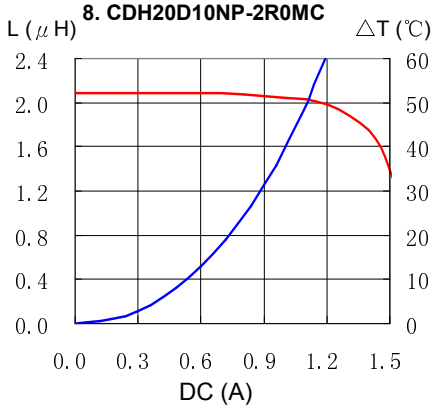
6. CDH20D10NP-1R5MC



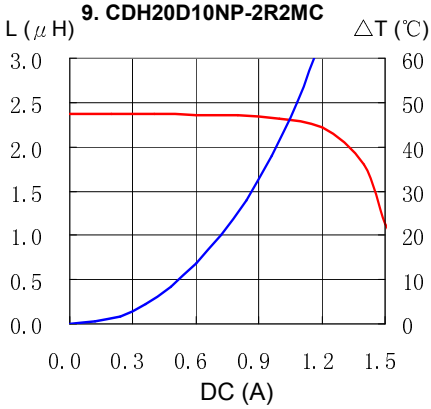
7. CDH20D10NP-1R8MC



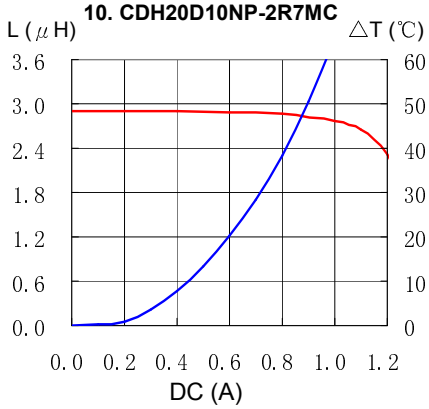
8. CDH20D10NP-2R0MC



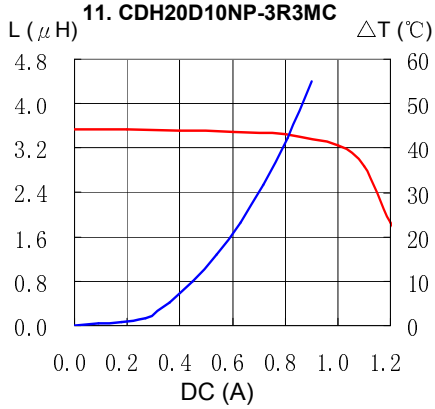
9. CDH20D10NP-2R2MC



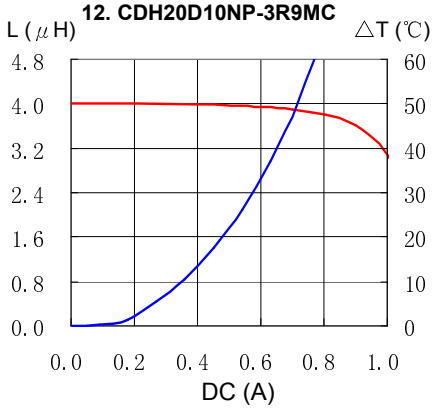
10. CDH20D10NP-2R7MC



11. CDH20D10NP-3R3MC



12. CDH20D10NP-3R9MC

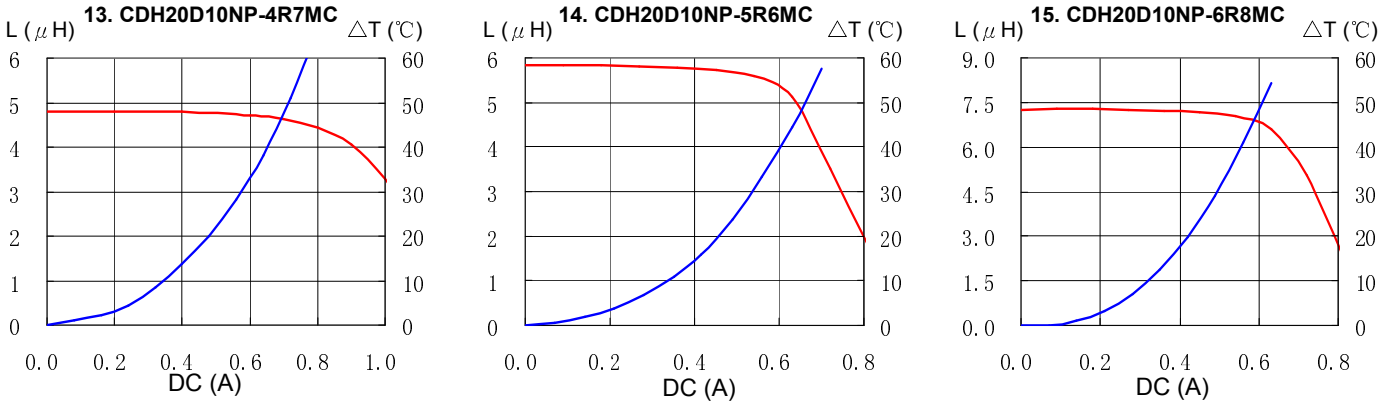


Revised: 19-Jul-12

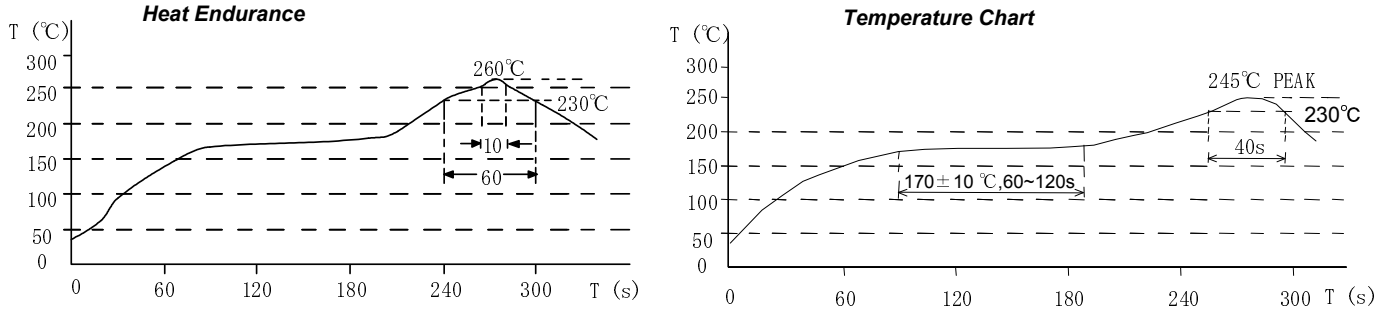
SMD Power Inductor
CDH20D10

Saturation Current & Temperature Rise Graph

L (20℃) △T



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

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

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

Taipei
Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

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

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

Singapore
Tel.+65-6296-3388
FAX.+65-6296-3390
sales@sg.sumida.com

San Jose
Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com

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

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

Neumarkt
Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com