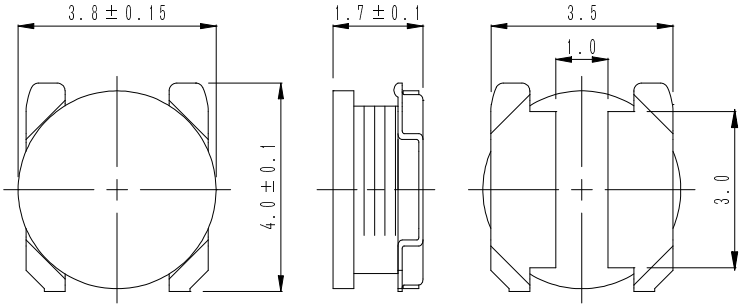
SMD Power Inductor
CDH38D16D/LD

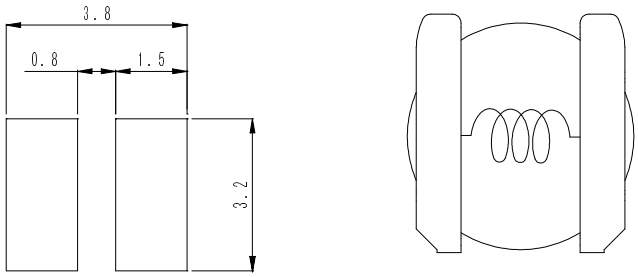
RoHS

Halogen Free

Dimension - [mm]



Land pattern and Schematics - [mm]



Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 4.1 × 3.95 × 1.8mm Max.
- Product weight: 80mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.
- 13.0"diameter reel
- 3000pcs per reel

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

Revised: 7-Jan-12

SMD Power Inductor
CDH38D16D/LD

Electrical Characteristics

Part No.	Stamp	Inductance [μH] [Within] ※1	D.C.R. (mΩ) [Within] (at 20℃)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20℃)	(at 105℃)	
CDH38D16DLDHF-1R0MC	A	1.0±20%	25±25%	2.40	1.90	3.12
CDH38D16DLDHF-1R7MC	C	1.7±20%	33±25%	1.90	1.50	2.90
CDH38D16DLDHF-2R0MC	E	2.0±20%	38±25%	1.70	1.35	2.70
CDH38D16DLDHF-3R3MC	G	3.3±20%	53±25%	1.35	1.05	2.20
CDH38D16DLDHF-4R7MC	J	4.7±20%	73±25%	1.15	0.90	1.85
CDH38D16DLDHF-6R8MC	L	6.8±20%	108±20%	0.95	0.75	1.52
CDH38D16DLDHF-100MC	N	10±20%	157±20%	0.76	0.60	1.26
CDH38D16DLDHF-150MC	Q	15±20%	250±20%	0.64	0.50	1.02
CDH38D16DLDHF-220MC	S	22±20%	340±20%	0.52	0.42	0.78
CDH38D16DLDHF-330MC	U	33±20%	540±20%	0.42	0.34	0.64

※1. Measuring condition: at 100kHz.

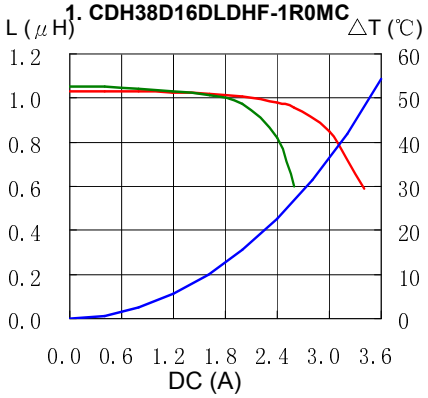
※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

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

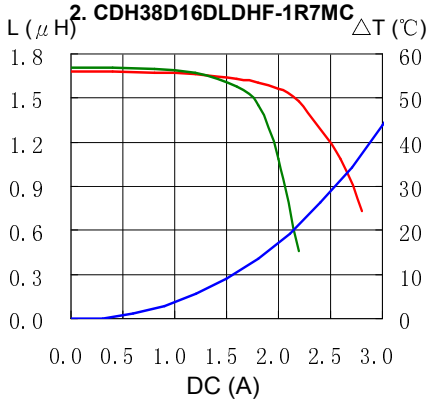
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

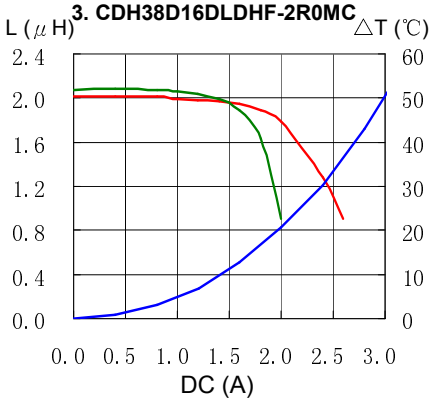
1. CDH38D16DLDHF-1R0MC



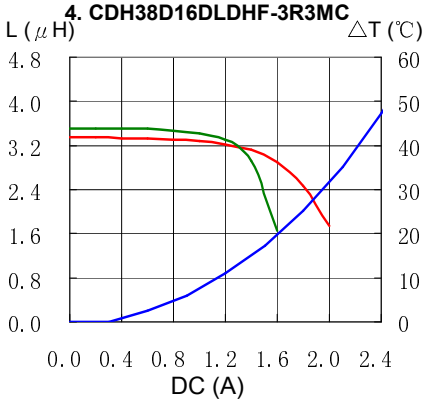
2. CDH38D16DLDHF-1R7MC



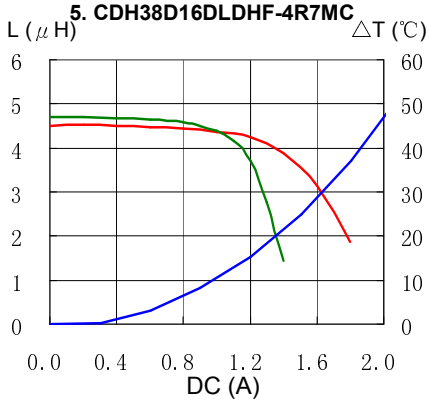
3. CDH38D16DLDHF-2R0MC



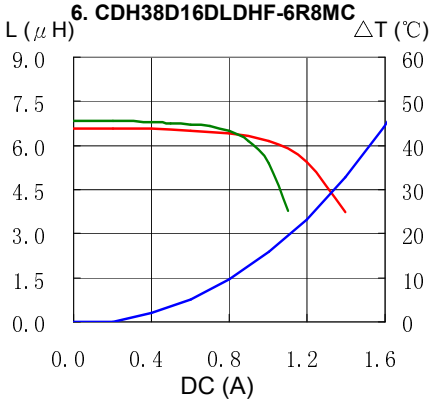
4. CDH38D16DLDHF-3R3MC



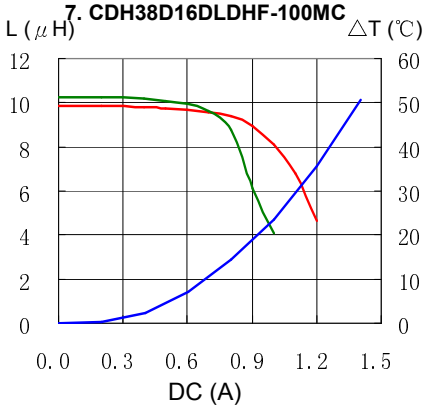
5. CDH38D16DLDHF-4R7MC



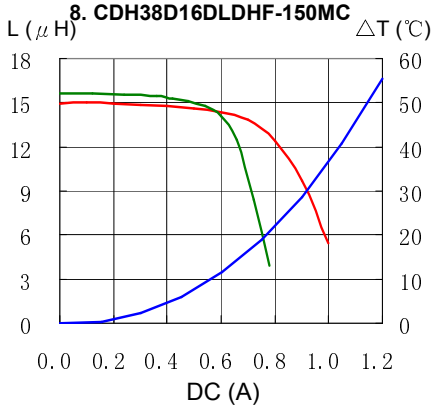
6. CDH38D16DLDHF-6R8MC



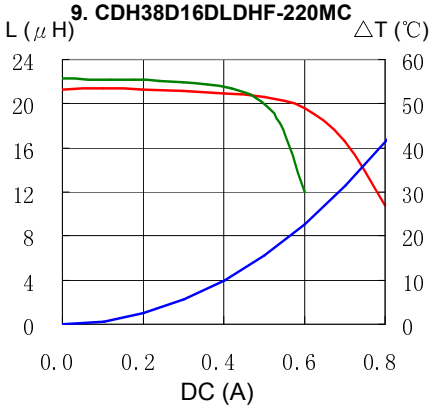
7. CDH38D16DLDHF-100MC



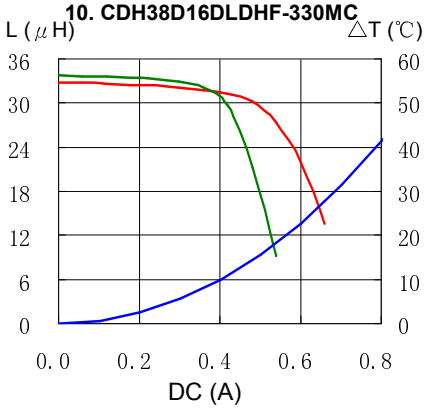
8. CDH38D16DLDHF-150MC



9. CDH38D16DLDHF-220MC

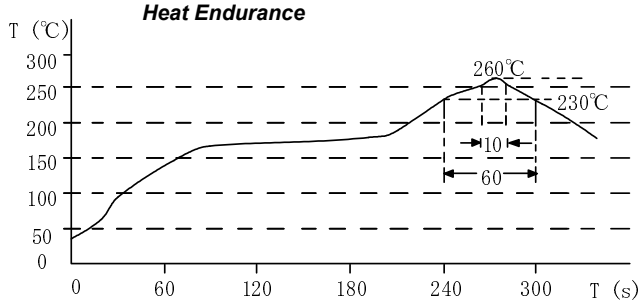


10. CDH38D16DLDHF-330MC

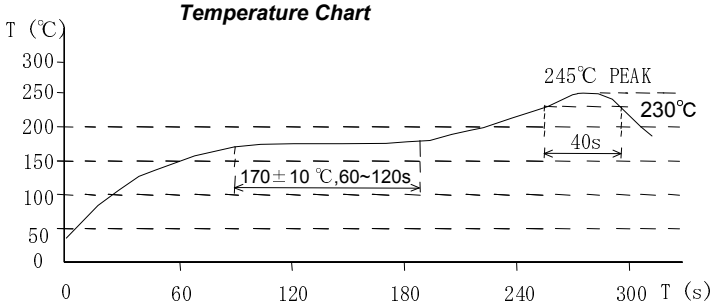


Solder Reflow Condition

Heat Endurance



Temperature Chart



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