

SMD Power Inductor

0320CDMCC/DS



Recommended Type

Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current
- LxWxH:3.7x3.4x2.0mm Max.
- Product weight: 0.107g (Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

- Operating temperature range: -55°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -55°C ~ +125°C

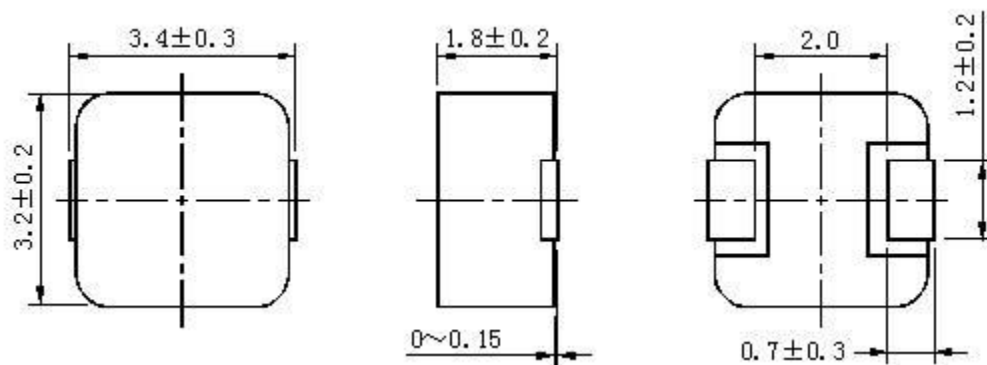
Packaging

- Carrier tape and reel packaging
- 3000pcs per reel

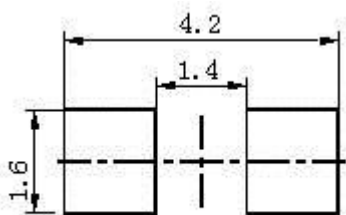
Applications

- Ideally used in notebook, ultrabook, tablet PC, LCD display, server application
- HDD,SSD modules application
- Low profile, high current power supplies
- Battery powered devices
- High current, POL converters
- DC/DC converter in distributed power systems

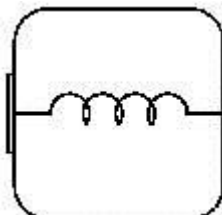
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



SMD Power Inductor

0320CDMCC/DS



Electrical Characteristics

Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
0320CDMCCDS-R22MC	0.22 \pm 20%	10.20 (8.50)	6.90 (8.10)	(10.00)
0320CDMCCDS-R33MC	0.33 \pm 20%	11.40 (9.50)	6.50 (7.60)	(9.50)
0320CDMCCDS-R47MC	0.47 \pm 20%	15.60 (13.00)	5.20 (6.20)	(7.50)
0320CDMCCDS-R56MC	0.56 \pm 20%	18.00 (15.00)	4.80 (5.70)	(7.00)
0320CDMCCDS-R68MC	0.68 \pm 20%	21.60 (18.00)	4.60 (5.40)	(6.50)
0320CDMCCDS-R82MC	0.82 \pm 20%	27.00 (22.50)	4.50 (5.30)	(5.60)
0320CDMCCDS-1R0MC	1.00 \pm 20%	31.20 (26.00)	4.40 (5.20)	(5.50)
0320CDMCCDS-1R5MC	1.50 \pm 20%	45.60 (38.00)	3.20 (3.80)	(4.00)
0320CDMCCDS-2R2MC	2.20 \pm 20%	72.00 (60.00)	2.90 (3.40)	(3.50)
0320CDMCCDS-3R3MC	3.30 \pm 20%	108 (90.00)	2.10 (2.50)	(2.50)

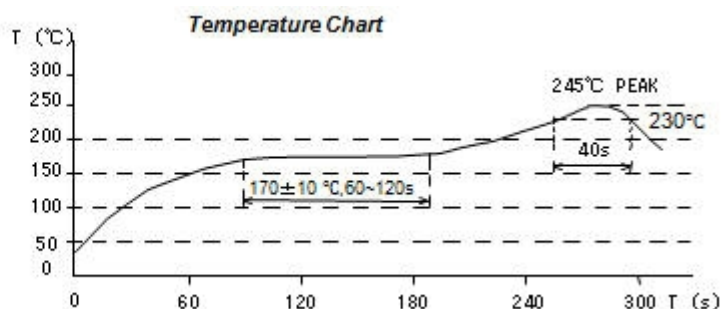
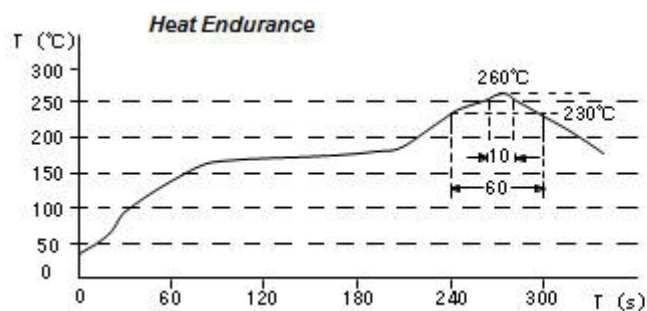
※1 Measuring frequency inductance at 100KHz, 1.0V

※2 Saturation current: The actual value of DC current when the inductance is over 70% of the initial value.

※3 Temperature rise current: The actual value of DC current when the coil temperature rise is $\Delta T=40^{\circ}\text{C}$.

$\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$) Board conditions: FR4, Copper=70 μ m, four-layer PWB, t=1.6mm.

Solder Reflow Condition



SMD Power Inductor

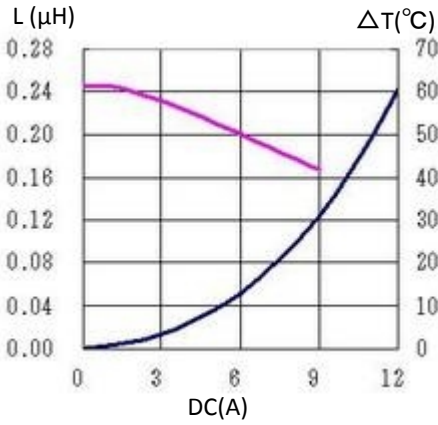
0320CDMCC/DS



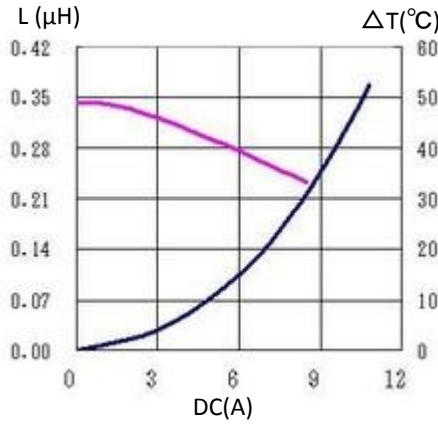
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

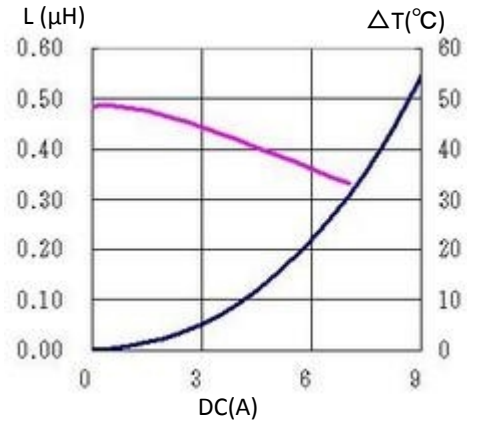
1. 0320CDMCCDS-R22MC



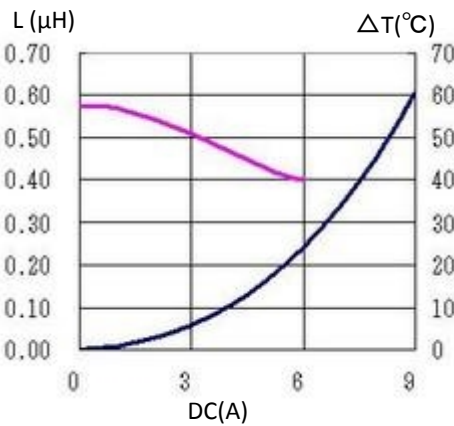
2. 0320CDMCCDS-R33MC



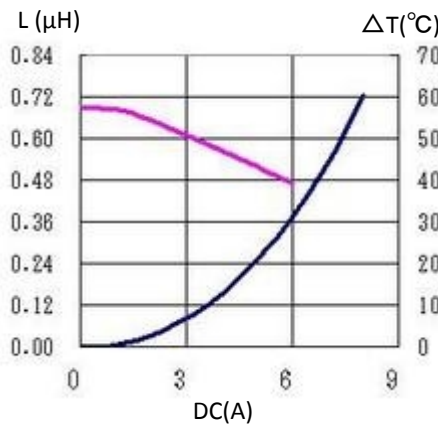
3. 0320CDMCCDS-R47MC



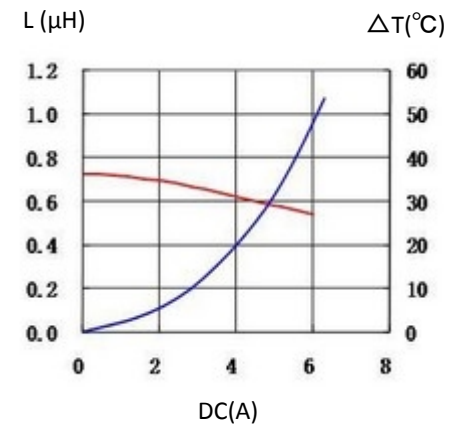
4. 0320CDMCCDS-R56MC



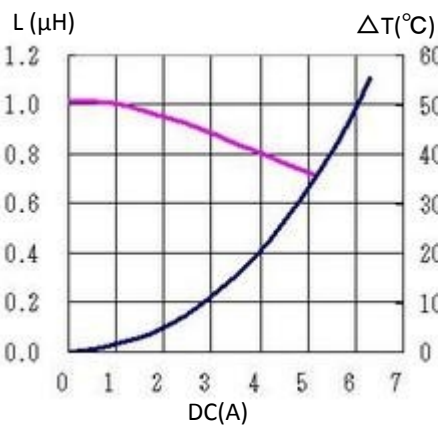
5. 0320CDMCCDS-R68MC



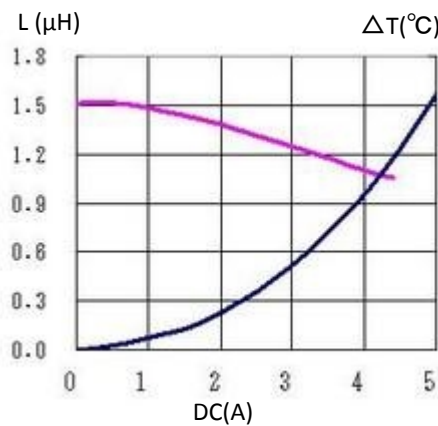
6. 0320CDMCCDS-R82MC



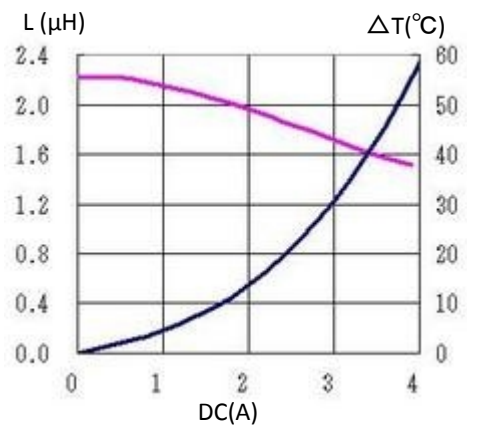
7. 0320CDMCCDS-1R0MC



8. 0320CDMCCDS-1R5MC



9. 0320CDMCCDS-2R2MC



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

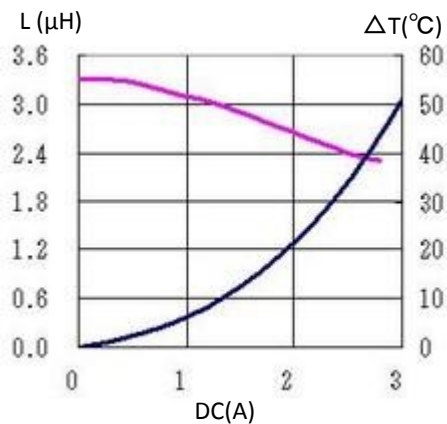
SMD Power Inductor

0320CDMCC/DS



Recommended Type

10. 0320CDMCCDS-3R3MC



For sales office information, please [click here](#) to visit our website.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Power Inductors - SMD category](#):

Click to view products by [Sumida manufacturer](#):

Other Similar products are found below :

[SPD62R-472M](#) [LLQPB201214T1R0M](#) [LLXND3030QKT470MNG](#) [LLQPB160807T4R7M](#) [LLAPB2016KKTR33M](#)
[LBXND4040TKL330MDG](#) [LLXNE3030KKT4R7MN](#) [LSQEA201212T100M](#) [IHLP5050CEER4R7M06](#) [LVS505020-1R0T-N](#) [LVS505040-1R2T-N](#) [LVS606020-1R5M-N](#) [LVS606028-6R8M-N](#) [LVS606045-102M-N](#) [LVS606045-150M-N](#) [LVS606045-1R8M-N](#) [LVS606045-6R8M-N](#) [LVS808040-2R0M-N](#) [LVS808040-330M-N](#) [LVS808040-4R7M-N](#) [MHCI06030-R56M-R8](#) [SCD0403T-470M-N](#) [SCD0403T-6R8K-N](#) [SCD0504T-101M-N](#) [SCD0504T-120M-N](#) [SCD0504T-221M-N](#) [SCD0504T-470M-N](#) [SCD0504T-471M-N](#) [SCD0705T-180M-N](#) [SCD0705T-221M-N](#) [SCD0705T-470M-N](#) [SCD1005T-101M-N](#) [SCD1005T-221M-N](#) [SCD1005T-470M-N](#) [SSL1306T-101M-N](#) [LQB15NNR27K10D](#) [201610CDMCDDS-R47MC](#) [201610CDMCDDS-1R0MC](#) [201610CDMCDDS-R68MC](#) [LSQPB201210T220M](#) [LBCNF2012KKTR24MA](#) [LSQEA201212T220K](#) [LSENC2016KKT1R0M](#) [LSQNB160808T470M](#) [LSBHB1608KKT2R2MG](#) [LSQPB160807T2R2M](#) [LSQEA201212T101K](#) [LCXND4040MKL4R7MDG](#) [DEM8045Z-5R6N=P3](#) [LCXND3030QKT4R7MNG](#)