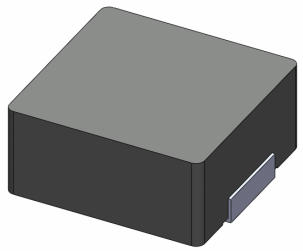
THE DATASHEET OF

0630CDMCCDS-R24MC

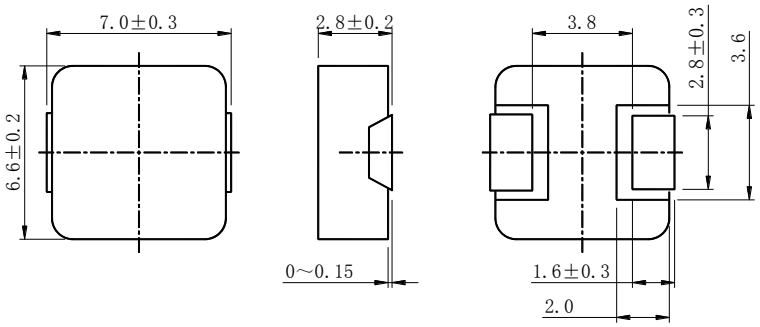
SMD Power Inductor
0630CDMCD/DS

RoHS

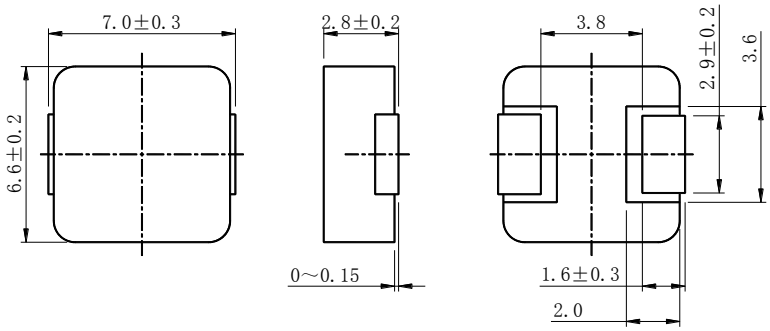
Halogen Free



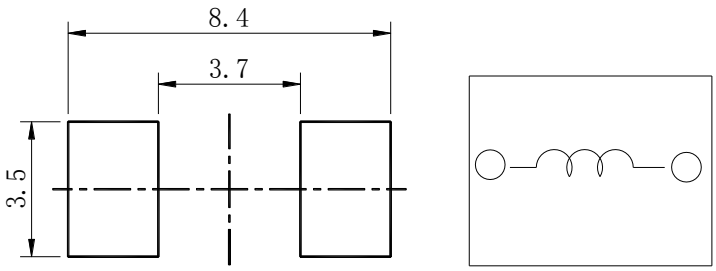
Dimension - [mm] (0.10μH、0.15μH)



Dimension - [mm] (0.20μH～6.8μH)



Land pattern and Schematics - [mm]



Description
- Carbonyl powder compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- L × W × H: 7.3 × 6.8 × 3.0mm Max.
- Product weight:0.73g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data
- Operating temperature range: -55℃～+125℃ (including coil's self temperature rise)
- Storage temperature range: -55℃～+125℃
- Solder reflow temperature: 260 ℃ peak.

Packaging
- Carrier tape and reel packaging.
- 1500pcs/Reel.

Applications
- Ideally used in notebook, ultrabook, tablet PC, LCD display, Server application.
- High current, POL converters.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.

Revised: 30-Oct-19

Electrical Characteristics

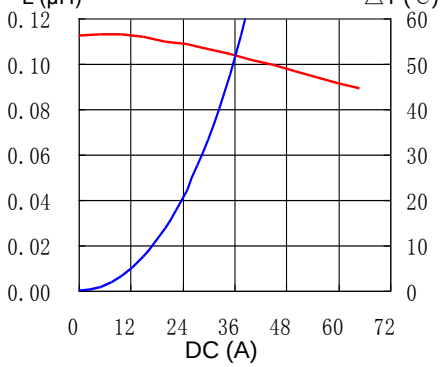
No.	品 名	表示	インダクタンス (μH) [以内] ※1	D.C.R (mΩ) at 25℃ Max.(Typ.)	直流重畳電流 (A) (at 25℃) Max.(Typ.) ※2	温度上昇電流 (A) Typ. ※3
01	0630CDMCDDS-R10MC	R10	0.10±20%	1.7(1.5)	52.5(61.8)	32.5
02	0630CDMCDDS-R15MC	R15	0.15±20%	1.1(0.9)	47.6(56.0)	37.0
03	0630CDMCDDS-R20MC	R20	0.20±20%	3.0(2.4)	41.0(51.0)	24.0
04	0630CDMCDDS-R22MC	R22	0.22±20%	3.2(2.5)	40.0(47.5)	23.0
05	0630CDMCDDS-R33MC	R33	0.33±20%	3.9(3.5)	30.0(35.5)	20.0
06	0630CDMCDDS-R47MC	R47	0.47±20%	4.2(4.0)	24.6(29.0)	19.5
07	0630CDMCDDS-R56MC	R56	0.56±20%	5.0(4.7)	23.8(28.0)	18.8
08	0630CDMCDDS-R68MC	R68	0.68±20%	5.5(5.0)	21.8(25.6)	18.0
09	0630CDMCDDS-R75MC	R75	0.75±20%	6.2(5.4)	21.0(25.0)	17.5
10	0630CDMCDDS-R82MC	R82	0.82±20%	8.0(6.7)	20.8(24.5)	16.0
11	0630CDMCDDS-1R0MC	1R0	1.0±20%	10.0(9.0)	18.7(22.0)	13.0
12	0630CDMCDDS-1R2MC	1R2	1.2±20%	12.0(10.0)	17.8(20.9)	12.5
13	0630CDMCDDS-1R5MC	1R5	1.5±20%	15.0(14.0)	17.4(20.5)	10.2
14	0630CDMCDDS-2R0MC	2R0	2.0±20%	18.0(16.0)	14.8(17.5)	9.5
15	0630CDMCDDS-2R2MC	2R2	2.2±20%	20.0(18.0)	14.4(17.0)	9.2
16	0630CDMCDDS-2R5MC	2R5	2.5±20%	22.0(20.0)	12.0(14.0)	7.8
17	0630CDMCDDS-3R3MC	3R3	3.3±20%	30.0(28.0)	11.5(13.5)	6.3
18	0630CDMCDDS-4R7MC	4R7	4.7±20%	40.0(37.0)	10.5(12.3)	5.5
19	0630CDMCDDS-6R8MC	6R8	6.8±20%	60.0(54.0)	7.2(8.5)	4.8
20	0630CDMCDDS-100MC	100	10±20%	62.0(55.0)	4.6(5.4)	4.5

※1 Measuring frequency Inductance at 100kHz ,1.0V
※2 Saturation current: The value of DC current when the inductance is over 80% of its initial value.
※3 Temperature rise current: The actual value of DC current when temperature of coil rise is △T=40℃(Ta=25℃) Board conditions: FR4, Copper=70μm,four-layer PWB, t=1.6mm.

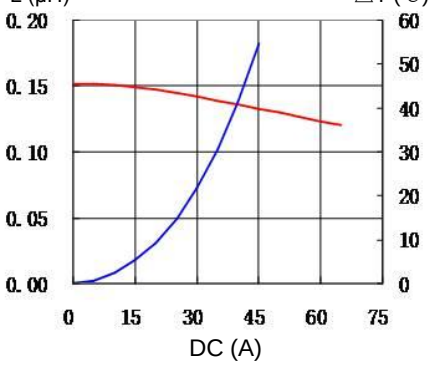
Saturation Current & Temperature Rise Graph

L (20℃) △T

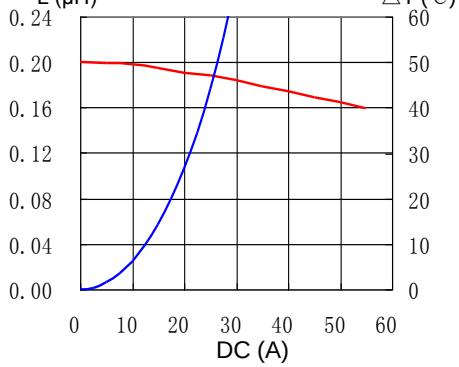
1. 0630CDMCDDS-R10MC



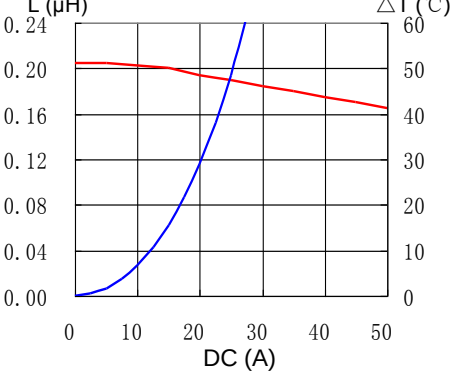
2. 0630CDMCDDS-R15MC



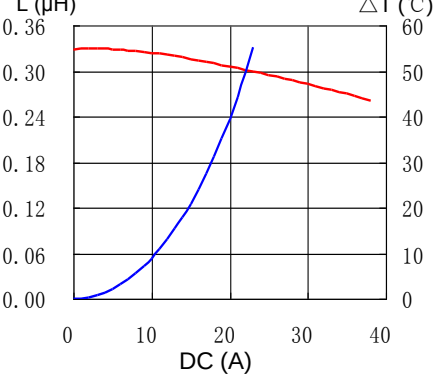
3. 0630CDMCDDS-R20MC



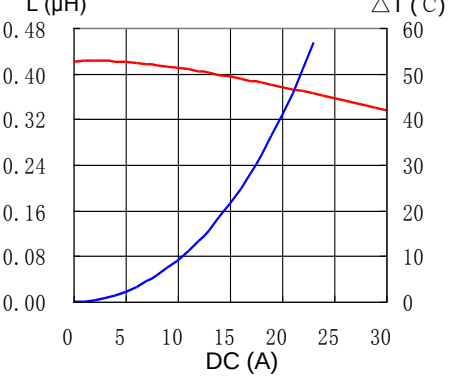
4. 0630CDMCDDS-R22MC



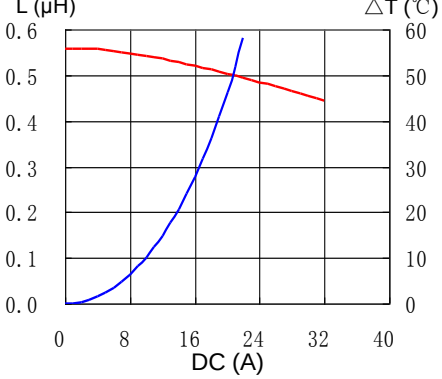
5. 0630CDMCDDS-R33MC



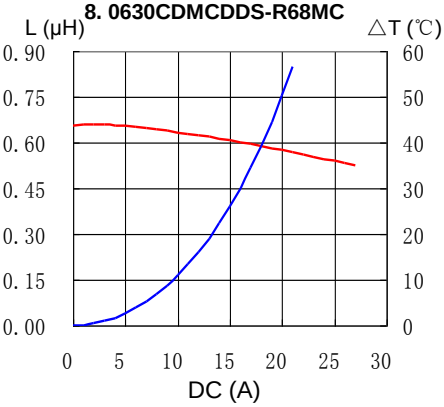
6. 0630CDMCDDS-R47MC



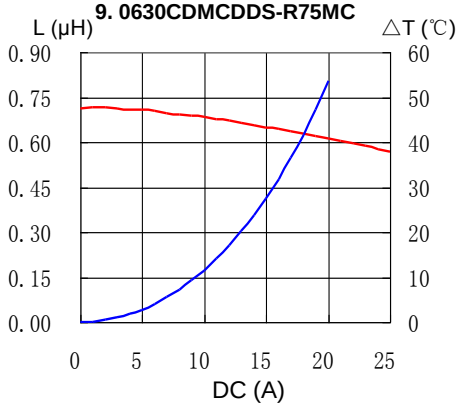
7. 0630CDMCDDS-R56MC



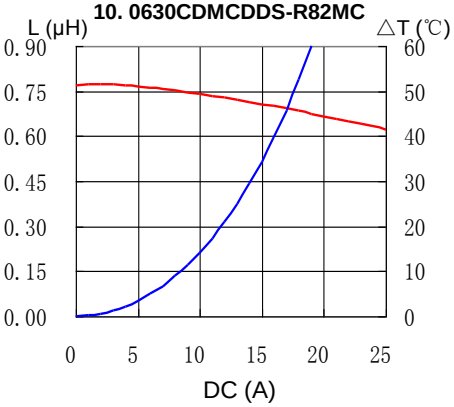
8. 0630CDMCDDS-R68MC



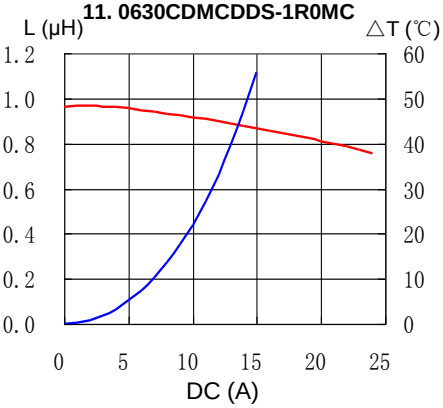
9. 0630CDMCDDS-R75MC



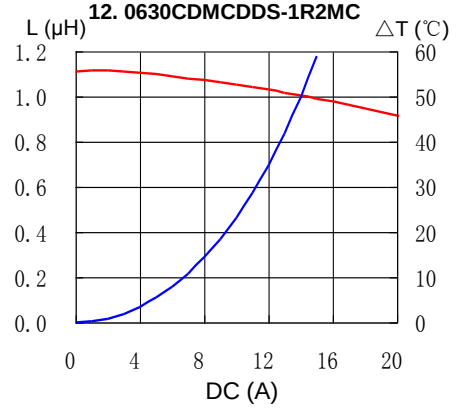
10. 0630CDMCDDS-R82MC



11. 0630CDMCDDS-1R0MC



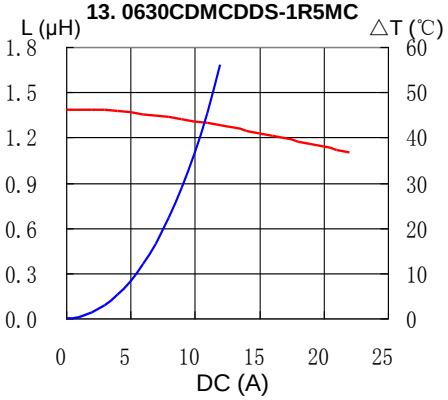
12. 0630CDMCDDS-1R2MC



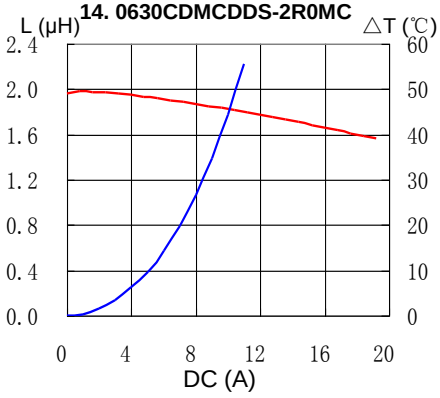
Saturation Current & Temperature Rise Graph

L (20℃) △T

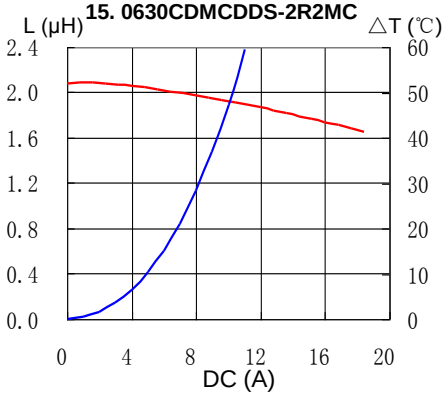
13. 0630CDMCDDS-1R5MC



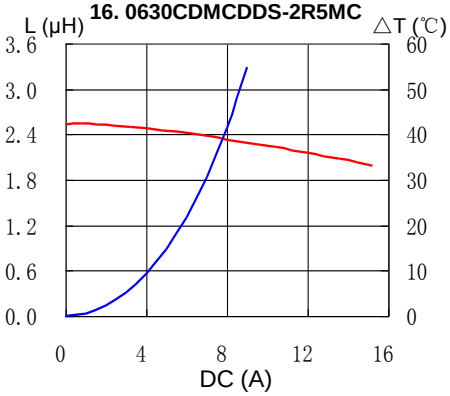
14. 0630CDMCDDS-2R0MC



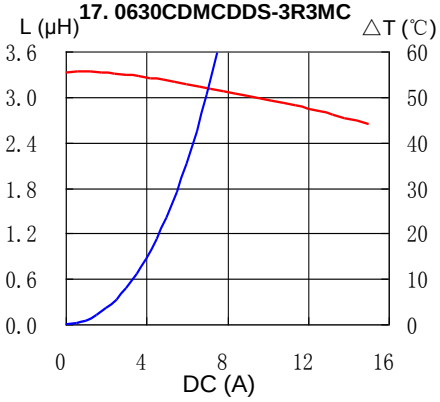
15. 0630CDMCDDS-2R2MC



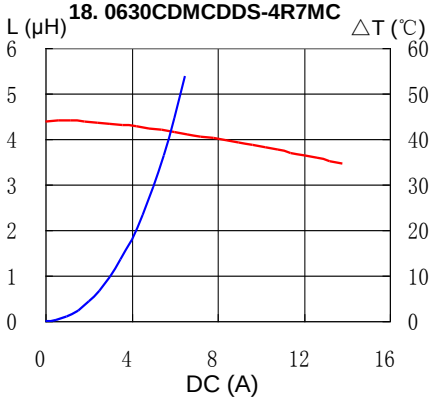
16. 0630CDMCDDS-2R5MC



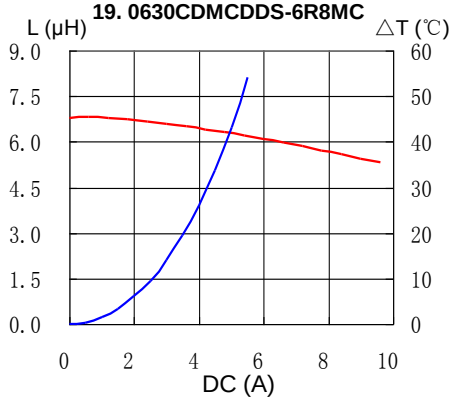
17. 0630CDMCDDS-3R3MC



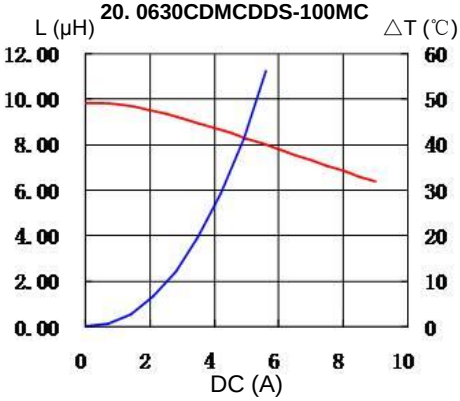
18. 0630CDMCDDS-4R7MC



19. 0630CDMCDDS-6R8MC

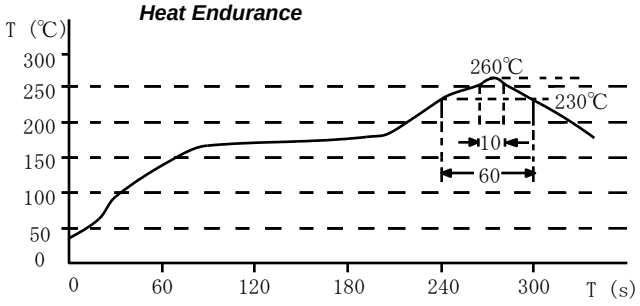


20. 0630CDMCDDS-100MC

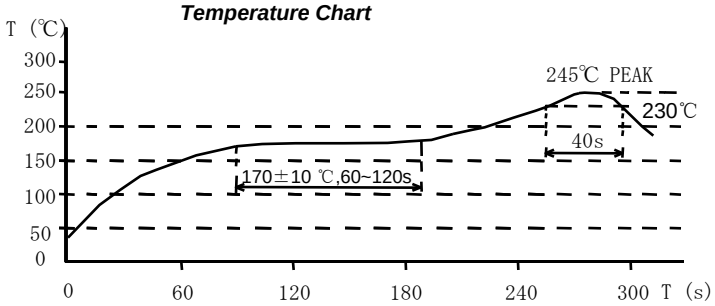


Solder Reflow Condition

Heat Endurance



Temperature Chart



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

Hong Kong
Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Shanghai
Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
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

Saitama(Japan)
Tel.+81-48-691-7300
FAX.+81-48-691-7340
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.+65-6841-4426
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@eu.sumida.com

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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View 0630CDMCCDS-R24MC on WIN SOURCE
- Sumida America Components Inc. Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management