THE DATASHEET OF

CDC5D23BNP-470KC

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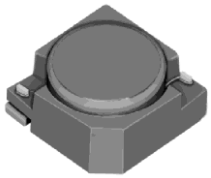
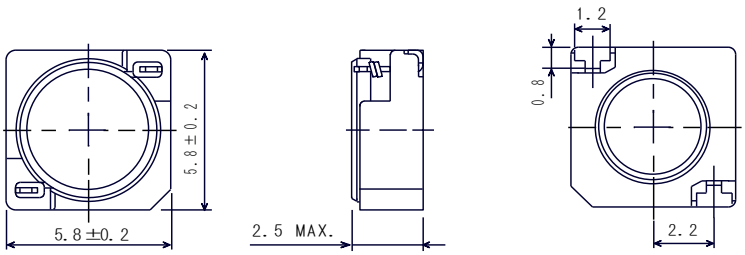
SMD Power Inductor
CDC5D23B

RoHS



Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 6.0 × 6.0 × 2.5 mm Max.
- Product weight: 215mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

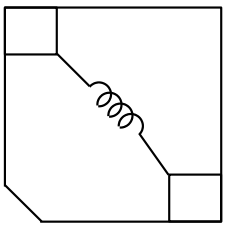
Dimension - [mm]



Environmental Data
- Operating temperature range: -40℃～+100℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+100℃
- Solder reflow temperature: 260 ℃ peak.

Packaging
- Carrier tape and reel packaging
- 13.0"diameter reel
- 2000pcs per reel

Schematics - [mm]



Applications
- Ideally used in EL drive as EL lamp inverter inductors.

Revised: 6-Jan-17

Electrical Characteristics

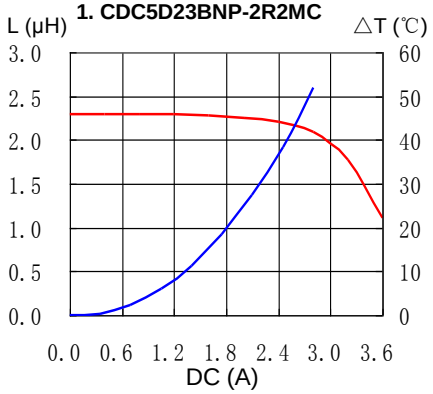
Part Name	Stamp	Inductance (μH) ［Within］ ※1	D.C.R.(mΩ) Max. (Typ.) (at20℃)	Rated current (A) ※2
CDC5D23BNP-2R2MC	2R2	2.2μH±20%	39 (30)	2.16
CDC5D23BNP-2R7MC	2R7	2.7μH±20%	44 (34)	2.08
CDC5D23BNP-3R3MC	3R3	3.3μH±20%	49 (38)	1.90
CDC5D23BNP-3R9MC	3R9	3.9μH±20%	56 (43)	1.84
CDC5D23BNP-4R7MC	4R7	4.7μH±20%	62 (48)	1.60
CDC5D23BNP-5R6MC	5R6	5.6μH±20%	78 (60)	1.44
CDC5D23BNP-6R8MC	6R8	6.8μH±20%	91 (70)	1.36
CDC5D23BNP-8R2MC	8R2	8.2μH±20%	103(87)	1.12
CDC5D23BNP-100LC	100	10μH±15%	133(102)	1.04
CDC5D23BNP-120LC	120	12μH±15%	148(114)	0.96
CDC5D23BNP-150KC	150	15μH±10%	166(128)	0.88
CDC5D23BNP-180KC	180	18μH±10%	213(164)	0.77
CDC5D23BNP-220KC	220	22μH±10%	248(191)	0.73
CDC5D23BNP-270KC	270	27μH±10%	328(252)	0.64
CDC5D23BNP-330KC	330	33μH±10%	378(291)	0.58
CDC5D23BNP-390KC	390	39μH±10%	438(337)	0.54
CDC5D23BNP-470KC	470	47μH±10%	546(420)	0.49
CDC5D23BNP-560KC	560	56μH±10%	621(478)	0.45
CDC5D23BNP-680KC	680	68μH±10%	715(550)	0.41
CDC5D23BNP-820KC	820	82μH±10%	1000(772)	0.35
CDC5D23BNP-101KC	101	100μH±10%	1070(820)	0.33
CDC5D23BNP-121KC	121	120μH±10%	1250(960)	0.32
CDC5D23BNP-151KC	151	150μH±10%	1660(1280)	0.26
CDC5D23BNP-181KC	181	180μH±10%	1900(1460)	0.23
CDC5D23BNP-221KC	221	220μH±10%	2440(1880)	0.21
CDC5D23BNP-271KC	271	270μH±10%	2730(2100)	0.19

※1. Inductance measuring condition: at 100 kHz.
※2. Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when △t＝40℃, whichever is lower (Ta＝20℃)

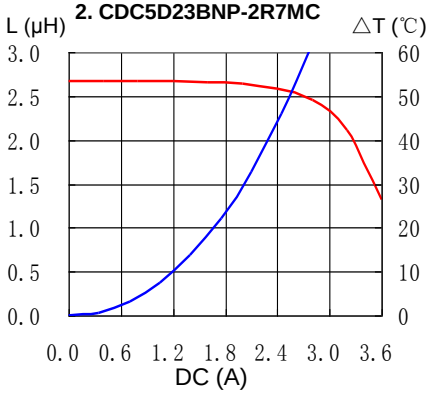
Saturation Current & Temperature Rise Graph

L (20℃) △T

1. CDC5D23BNP-2R2MC



2. CDC5D23BNP-2R7MC



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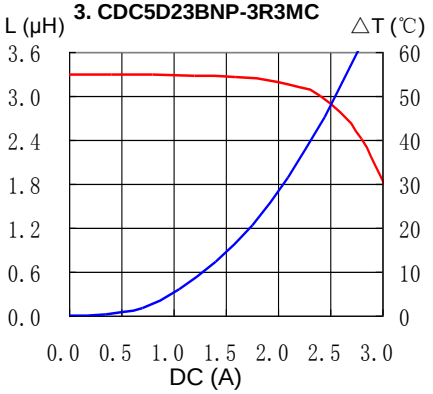

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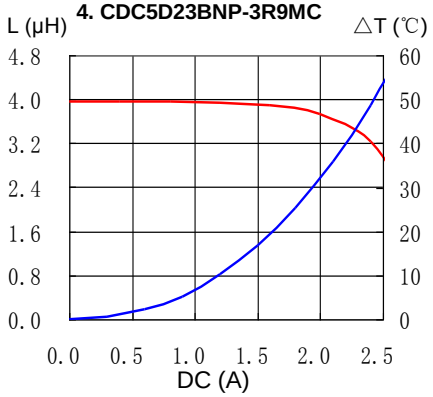
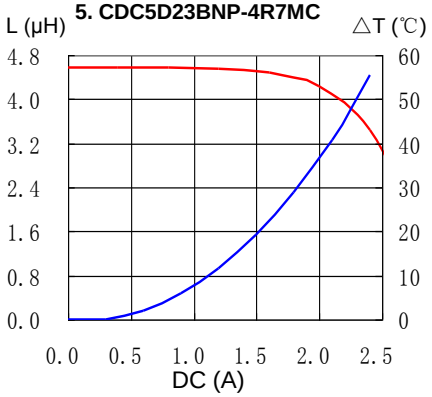


5. CDC5D23BNP-4R7MC



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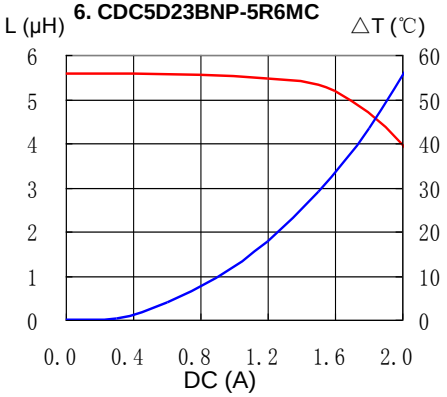
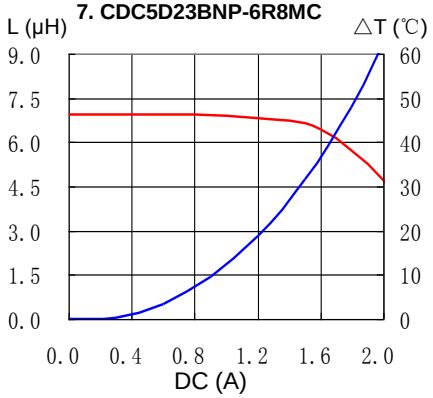


7. CDC5D23BNP-6R8MC



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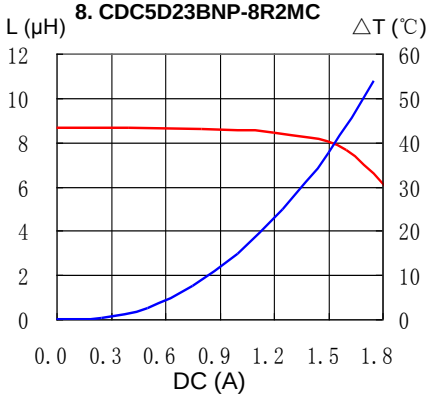

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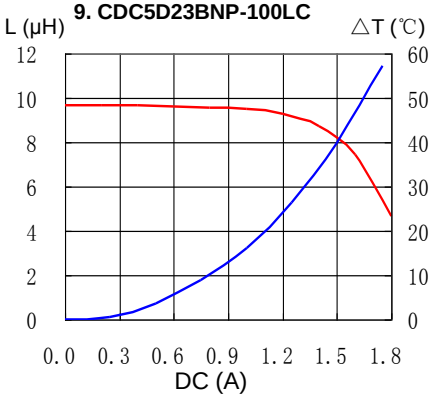

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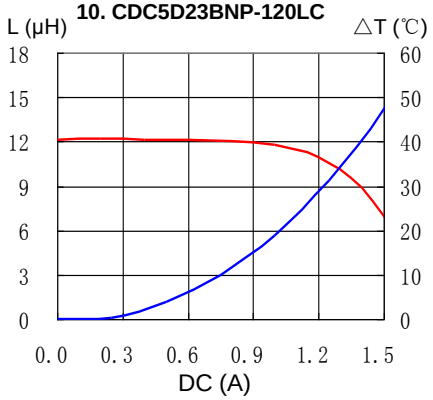

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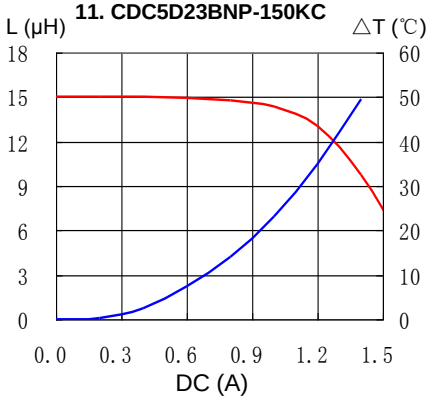

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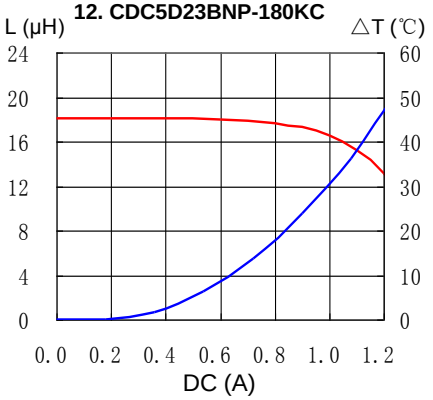
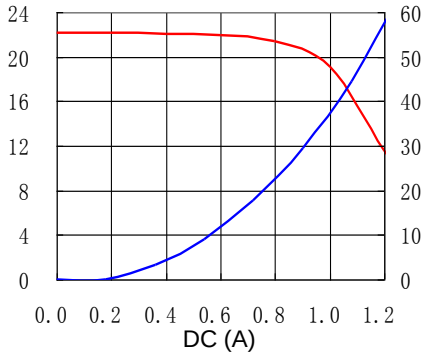


Saturation Current & Temperature Rise Graph

L (20℃) △T

13. CDC5D23BNP-220KC



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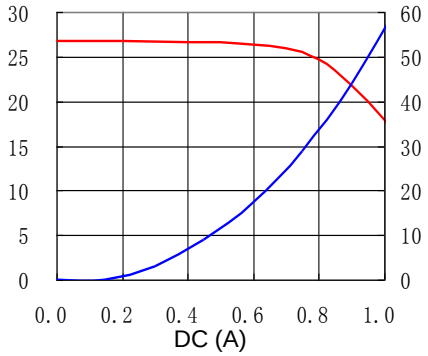

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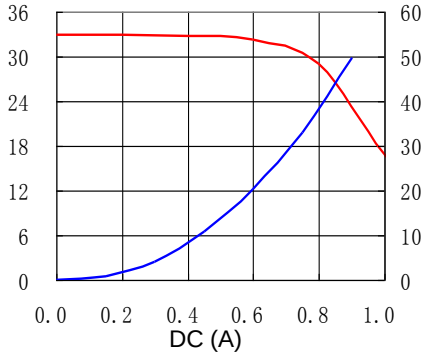
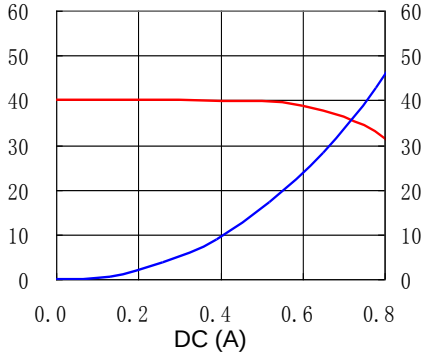
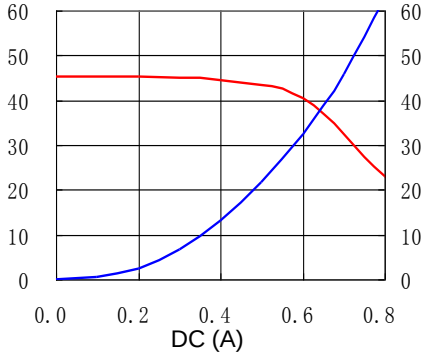


16. CDC5D23BNP-390KC



17. CDC5D23BNP-470KC



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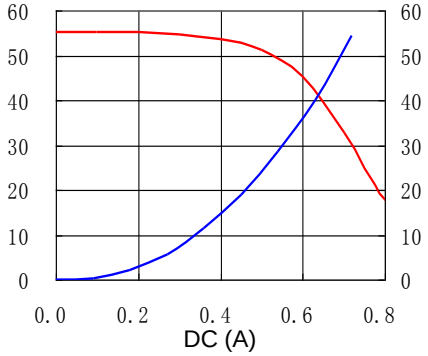

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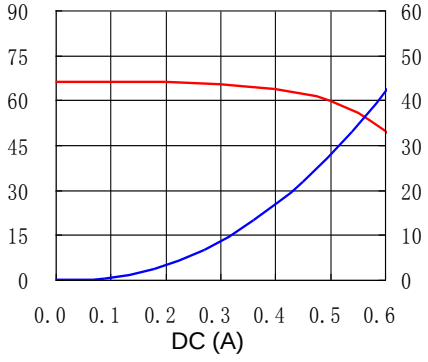

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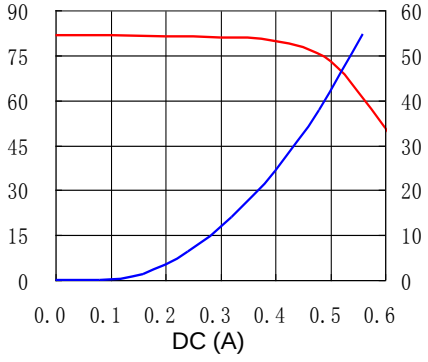
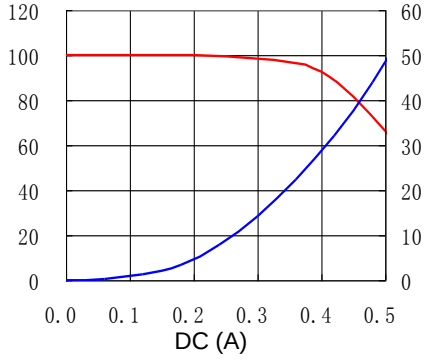


21. CDC5D23BNP-101KC



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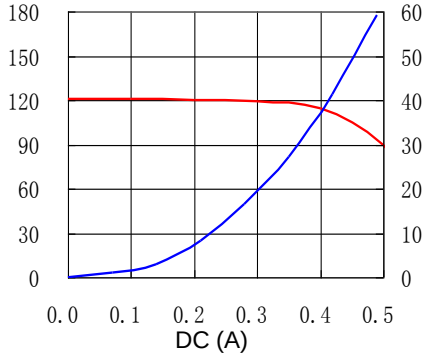

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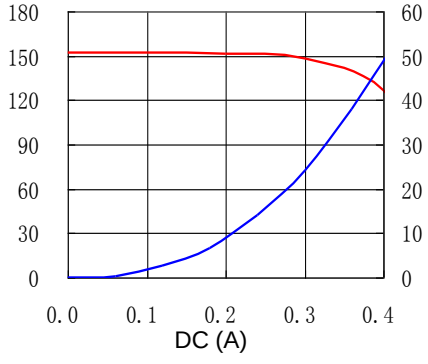

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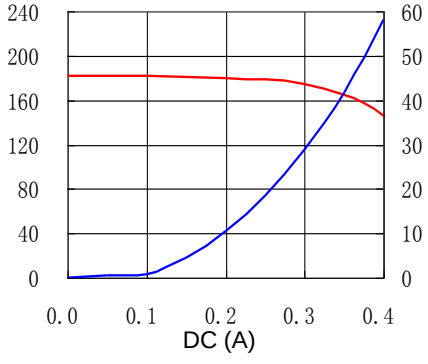
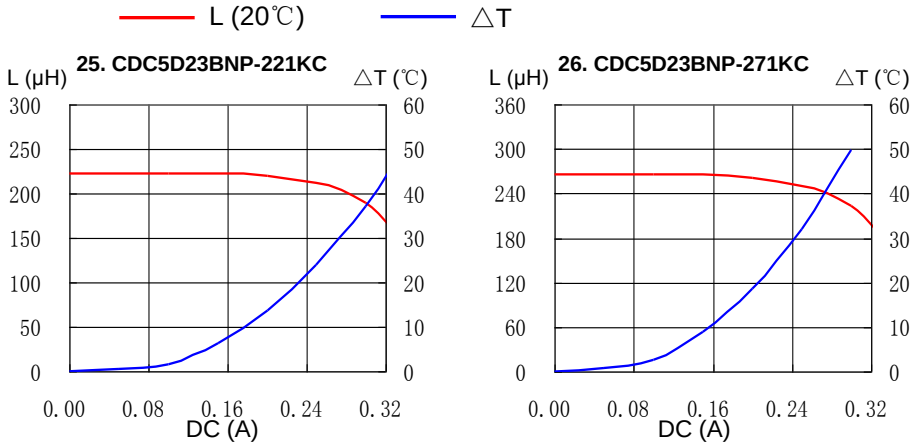
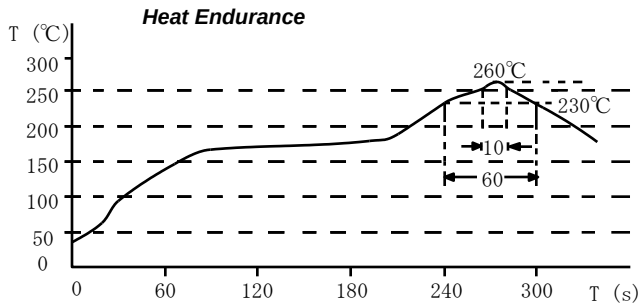
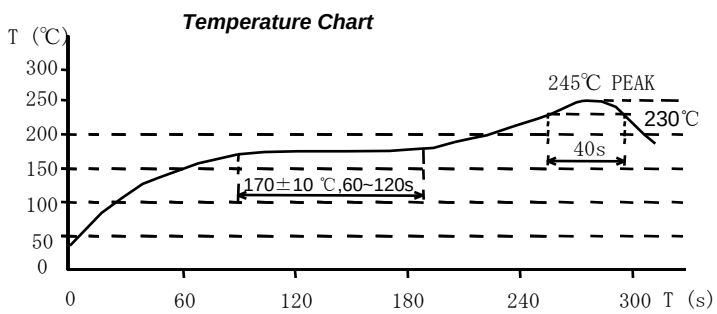


Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

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

Taipei
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Saitama(Japan)
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Singapore
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San Jose
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FAX.+1-408-321-9308
sales@us.sumida.com

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

Obernzell
Tel.+49-8591-937-0
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