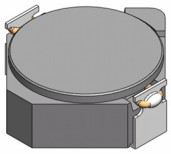
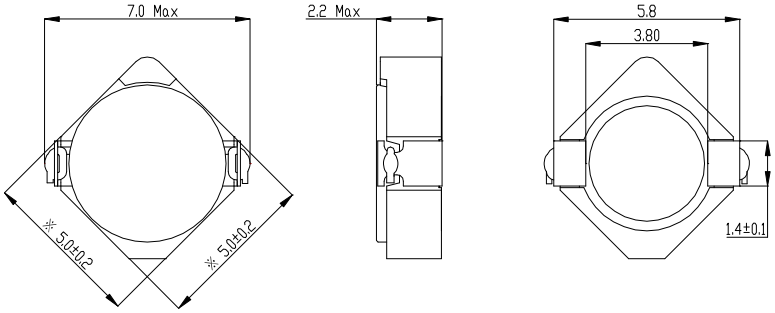
SMD Power Inductor
CDRH50D20/T150

Under Development

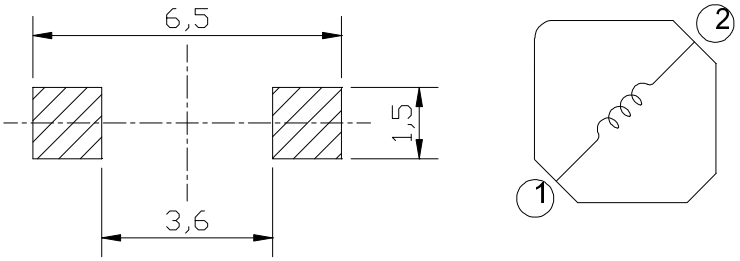


Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.2 × 5.2 × 2.2 mm Max.
- Product weight: 0.2g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data
- Operating temperature range: -40℃～+150℃
- (including coil's self temperature rise)
- Storage temperature range: -40℃～+150℃
- Solder reflow temperature: 260 ℃ peak.

Packaging
- Carrier tape and reel packaging

Applications
- Automotive and other high temperature, high reliability application.

Revised: 3-Sep-13

SMD Power Inductor
CDRH50D20/T150

Under Development

Electrical Characteristics

Part No.	Stamp	Inductance [Within] [μH] ※1	D.C.R. (mΩ) [Max.] (at 20℃)	Saturation Current (A) (at 20℃) ※2	Temperature Rise Current (A) typ. ※3
CDRH50D20T150NP-1R2NC	1R2	1.2±30%	30 (24)	4.00	3.40
CDRH50D20T150NP-1R8NC	1R8	1.8±30%	36 (29)	3.40	3.12
CDRH50D20T150NP-2R2NC	2R2	2.2±30%	40 (33)	3.06	2.88
CDRH50D20T150NP-3R3NC	3R3	3.3±30%	50 (41)	2.51	2.52
CDRH50D20T150NP-4R7NC	4R7	4.7±30%	74 (62)	2.04	2.08
CDRH50D20T150NP-6R8NC	6R8	6.8±30%	110 (91)	1.73	1.75
CDRH50D20T150NP-100MC	100	10.0±20%	144 (120)	1.41	1.51
CDRH50D20T150NP-150MC	150	15.0±20%	240 (200)	1.15	1.08
CDRH50D20T150NP-220MC	220	22.0±20%	320 (265)	0.97	0.98
CDRH50D20T150NP-330MC	330	33.0±20%	440 (365)	0.78	0.83
CDRH50D20T150NP-470MC	470	47.0±20%	690 (575)	0.66	0.61
CDRH50D20T150NP-101MC	101	100±20%	1280 (1100)	0.45	0.52

※1. Measuring condition: at 100 kHz.

※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 actual value of DC current when the top surface temperature of test sample rise is △T=40℃(Ta=25℃).

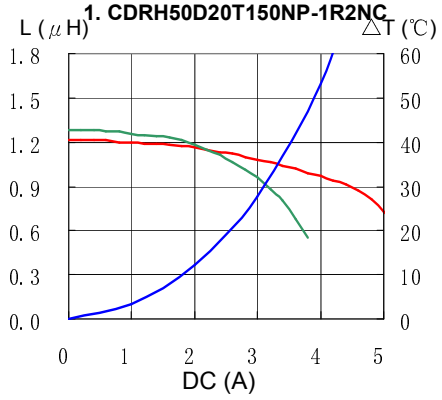
SMD Power Inductor
CDRH50D20/T150

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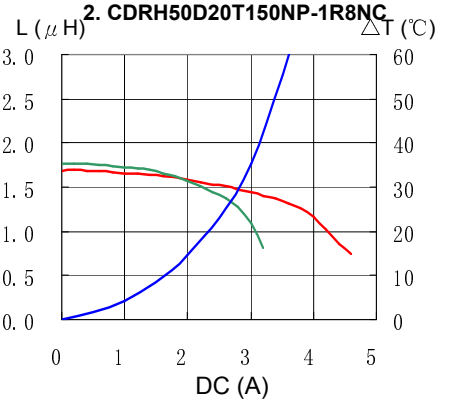
Saturation Current & Temperature Rise Graph

L (25℃) L (150℃) △T

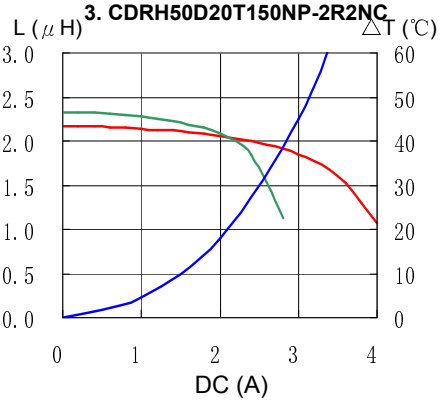
1. CDRH50D20T150NP-1R2NC



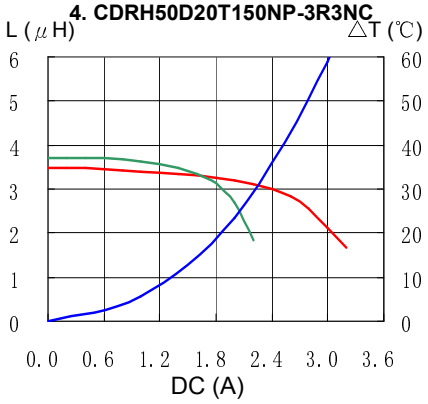
2. CDRH50D20T150NP-1R8NC



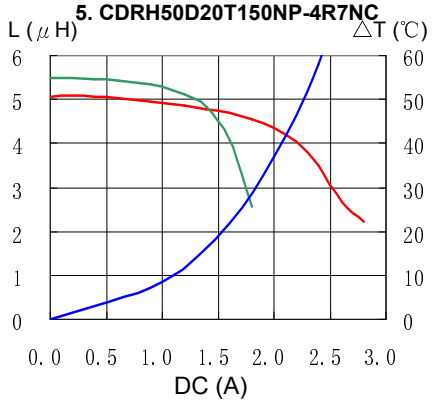
3. CDRH50D20T150NP-2R2NC



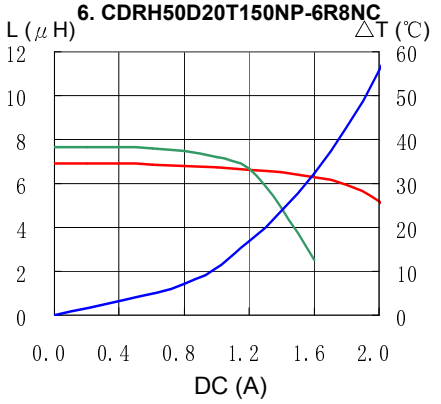
4. CDRH50D20T150NP-3R3NC



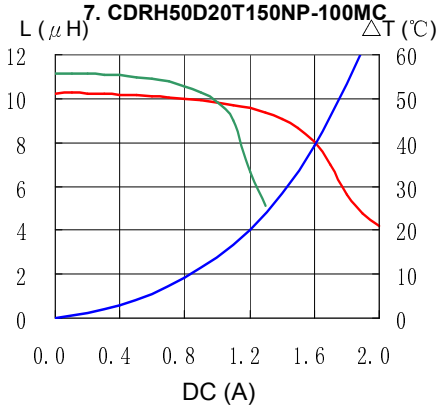
5. CDRH50D20T150NP-4R7NC



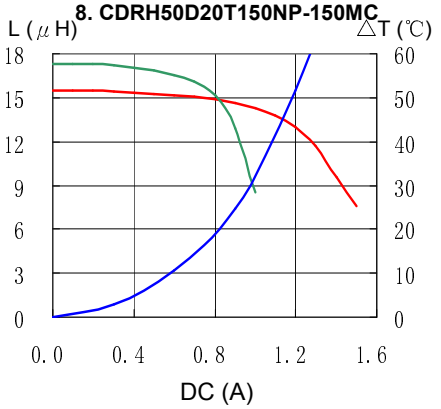
6. CDRH50D20T150NP-6R8NC



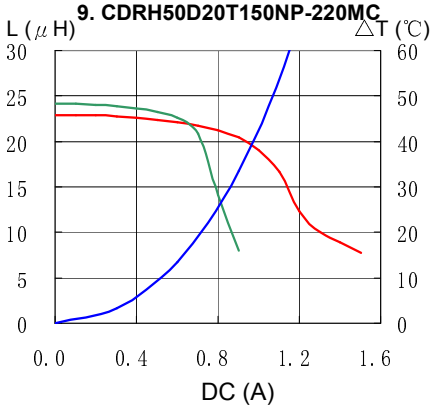
7. CDRH50D20T150NP-100MC



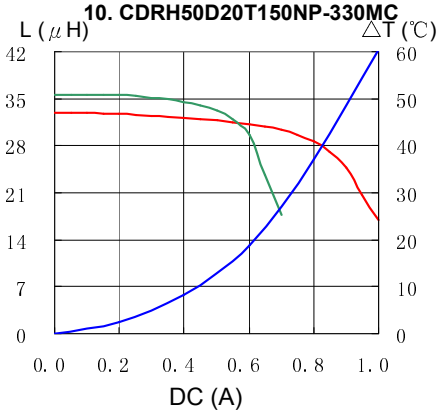
8. CDRH50D20T150NP-150MC



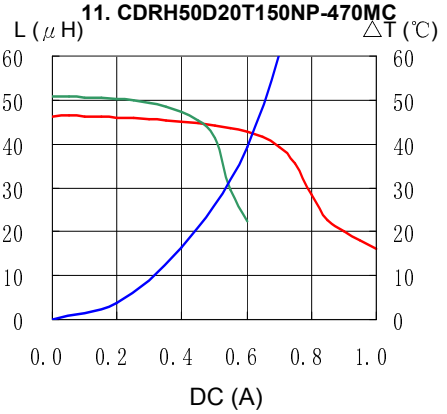
9. CDRH50D20T150NP-220MC



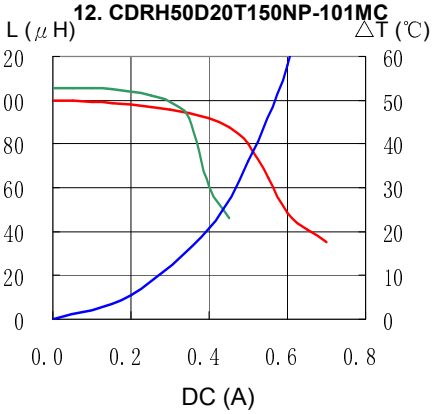
10. CDRH50D20T150NP-330MC



11. CDRH50D20T150NP-470MC



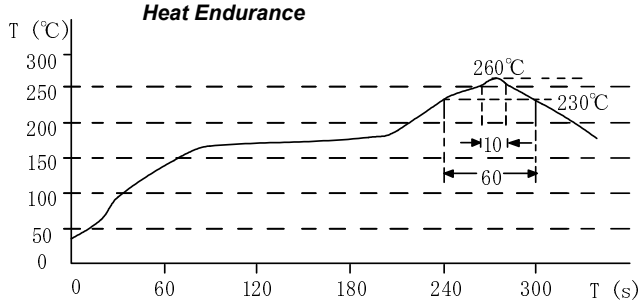
12. CDRH50D20T150NP-101MC



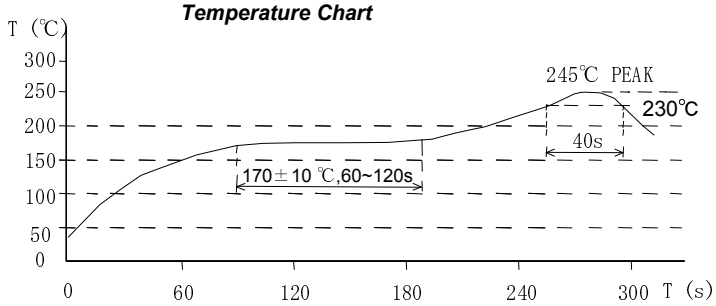
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Solder Reflow Condition

Heat Endurance



Temperature Chart



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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