SMD Power Inductor

CDRH5D28

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:6.0 × 6.0 × 3.0 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.



Environmental Data

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

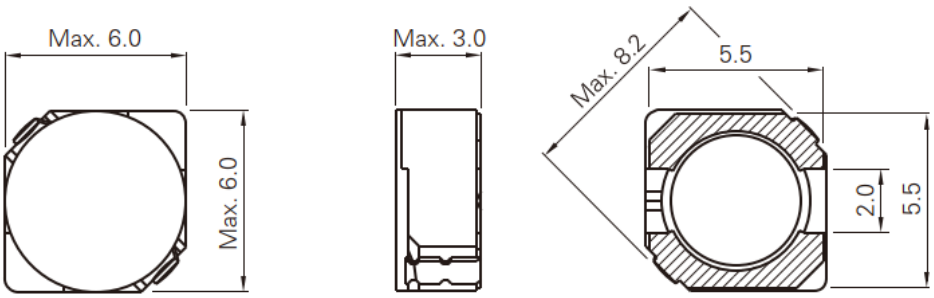
Packaging

- Carrier tape and reel packaging
- 13.0"diameter reel
- 2,000pcs per reel

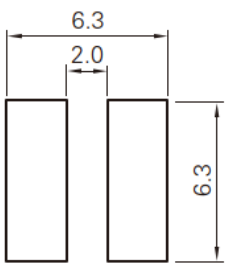
Applications

- Ideally used in Notebook PC,HDD,DSC/DVC, LCD TV ,Game machine etc. as DC-DC converter inductors.

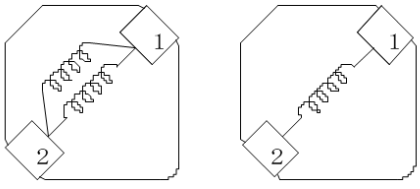
Dimension - [mm]



Land patterns - [mm]



Schematics



(2.5μH～8.2μH) (10μH～100μH)

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

CDRH5D28

Electrical Characteristics

Part Name	Inductance (μH) [within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20℃)	Saturation Current (A) Max. (Typ.) (at 20℃) ※2	Temperature Rise Current (A) (Typ.) ※3
CDRH5D28NP-2R5NC	2.5 ± 30%	18.0 (13.0)	2.60 (3.10)	(4.20)
CDRH5D28NP-3R0NC	3.0 ± 30%	24.0 (18.0)	2.40 (2.85)	(3.80)
CDRH5D28NP-4R2NC	4.2 ± 30%	31.0 (23.0)	2.20 (2.60)	(3.60)
CDRH5D28NP-5R3NC	5.3 ± 30%	38.0 (28.0)	1.95 (2.30)	(3.30)
CDRH5D28NP-6R2NC	6.2 ± 30%	45.0 (33.0)	1.80 (2.12)	(3.10)
CDRH5D28NP-8R2NC	8.2 ± 30%	53.0 (39.0)	1.60 (1.88)	(270)
CDRH5D28NP-100NC	10 ± 30%	65.0 (48.0)	1.30 (1.55)	(2.45)
CDRH5D28NP-120NC	12 ± 30%	76.0 (56.0)	1.20 (1.42)	(2.35)
CDRH5D28NP-150NC	15 ± 30%	103 (76.0)	1.10 (1.25)	(2.05)
CDRH5D28NP-180NC	18 ± 30%	110 (82.0)	1.00 (1.20)	(1.90)
CDRH5D28NP-220NC	22 ± 30%	122 (90.0)	0.90 (1.15)	(1.80)
CDRH5D28NP-270NC	27 ± 30%	175 (130)	0.85 (0.97)	(1.60)
CDRH5D28NP-330NC	33 ± 30%	189 (140)	0.75 (0.87)	(1.45)
CDRH5D28NP-390NC	39 ± 30%	212 (157)	0.70 (0.84)	(1.35)
CDRH5D28NP-470NC	47 ± 30%	250 (185)	0.62 (0.72)	(1.30)
CDRH5D28NP-560NC	56 ± 30%	305 (226)	0.58 (0.63)	(1.15)
CDRH5D28NP-680NC	68 ± 30%	355 (263)	0.52 (0.60)	(1.10)
CDRH5D28NP-820NC	82 ± 30%	463 (343)	0.46 (0.51)	(1.00)
CDRH5D28NP-101NC	100 ± 30%	520 (385)	0.42 (0.50)	(0.90)

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 65% of its initial value.

※3 The temperature rise: The value of DC current when the temperature rise is △T＝40℃ (Ta＝20℃).

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

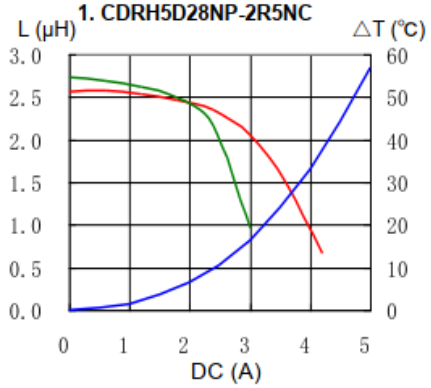
SMD Power Inductor

CDRH5D28

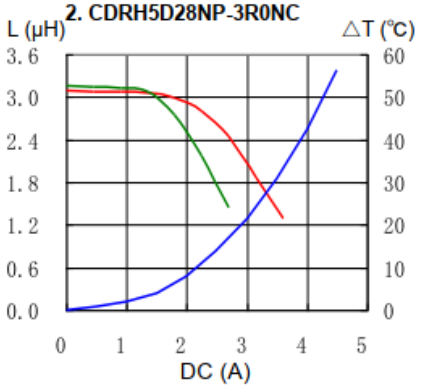
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

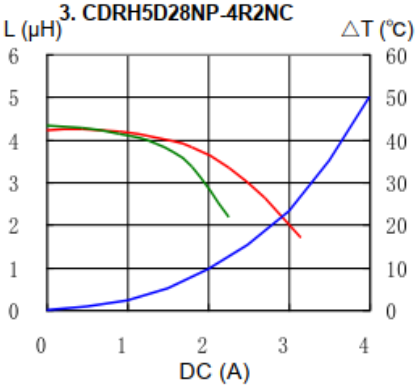
1. CDRH5D28NP-2R5NC



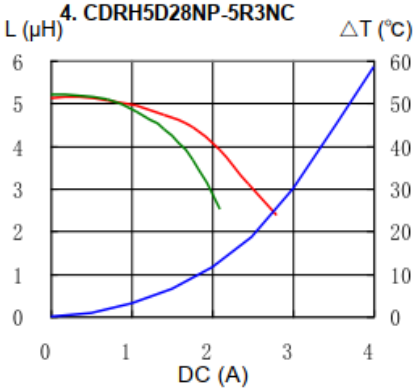
2. CDRH5D28NP-3R0NC



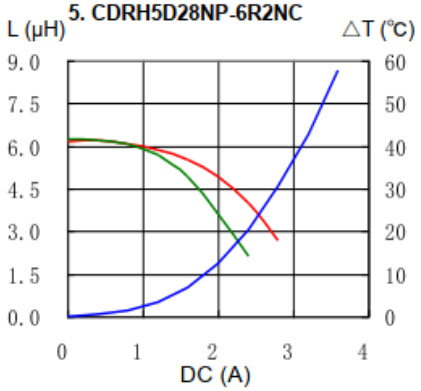
3. CDRH5D28NP-4R2NC



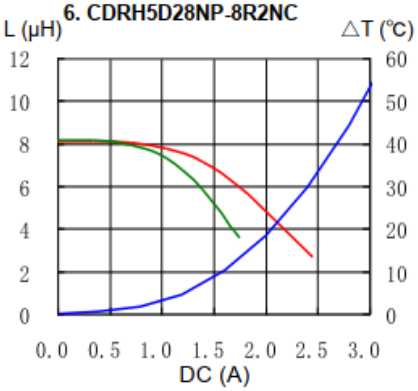
4. CDRH5D28NP-5R3NC



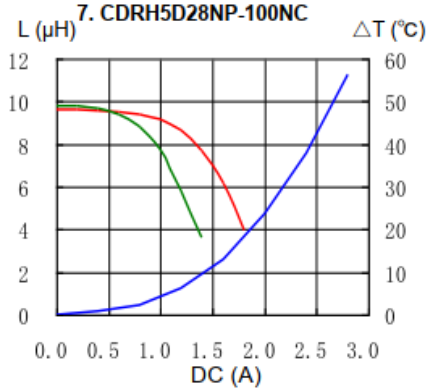
5. CDRH5D28NP-6R2NC



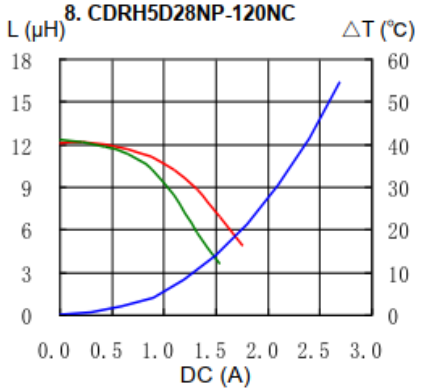
6. CDRH5D28NP-8R2NC



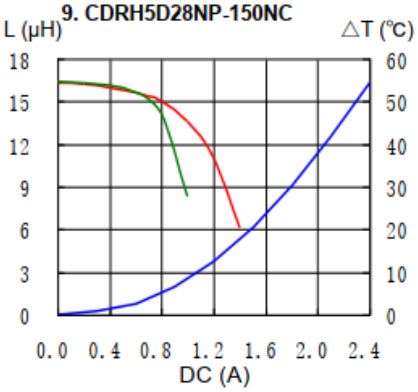
7. CDRH5D28NP-100NC



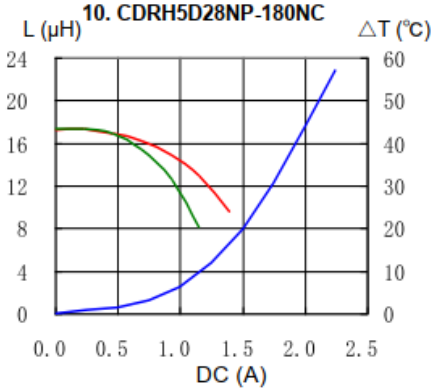
8. CDRH5D28NP-120NC



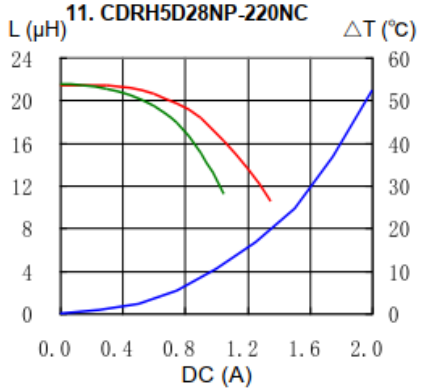
9. CDRH5D28NP-150NC



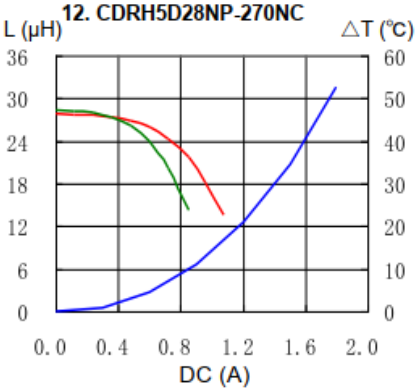
10. CDRH5D28NP-180NC



11. CDRH5D28NP-220NC



12. CDRH5D28NP-270NC



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

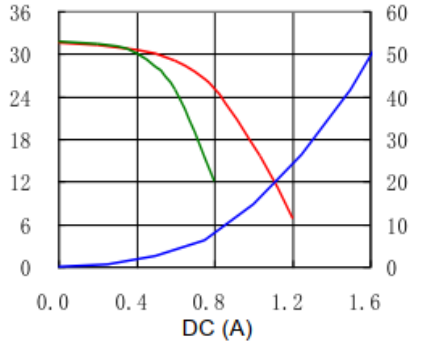
SMD Power Inductor

CDRH5D28

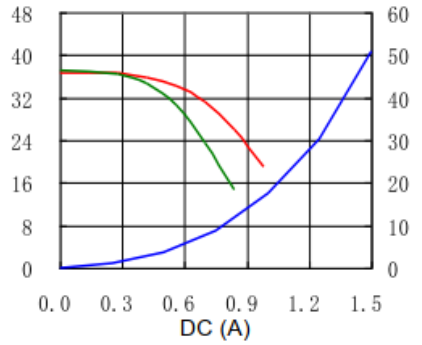
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

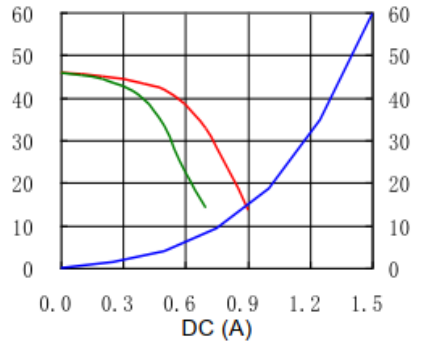
13. CDRH5D28NP-330NC



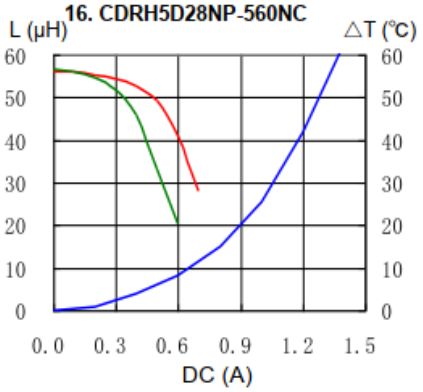
14. CDRH5D28NP-390NC



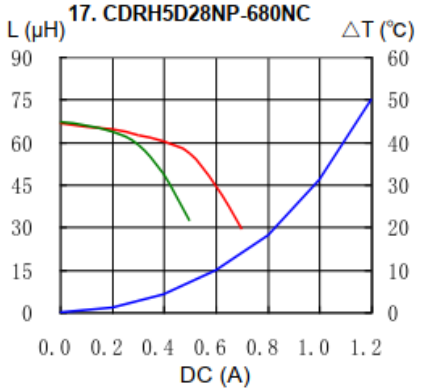
15. CDRH5D28NP-470NC



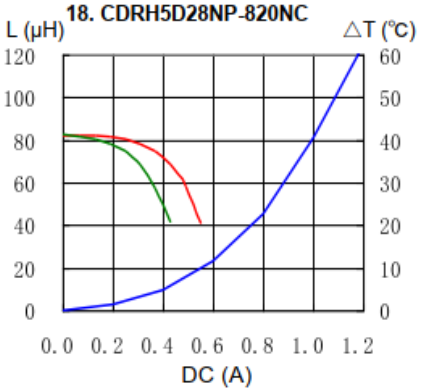
16. CDRH5D28NP-560NC



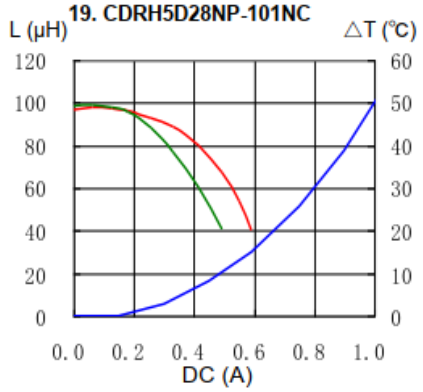
17. CDRH5D28NP-680NC



18. CDRH5D28NP-820NC



19. CDRH5D28NP-101NC



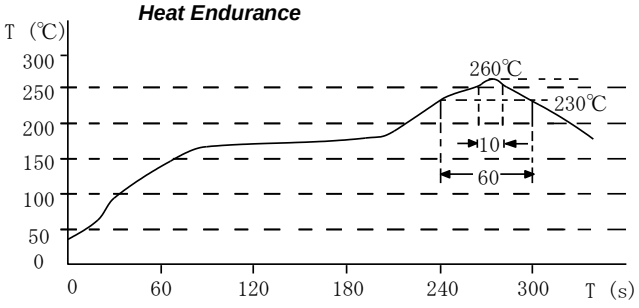
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

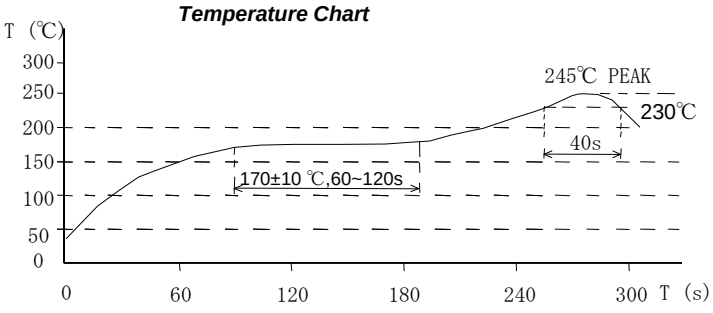
CDRH5D28

Solder Reflow Condition

Heat Endurance



Temperature Chart



For sales office information, please click here to visit our website.

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