SMD Power Inductor

CDRH10D68

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:10.5 × 10.5 × 7.1 mm Max.
- Product weight: 1.8g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40℃～+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

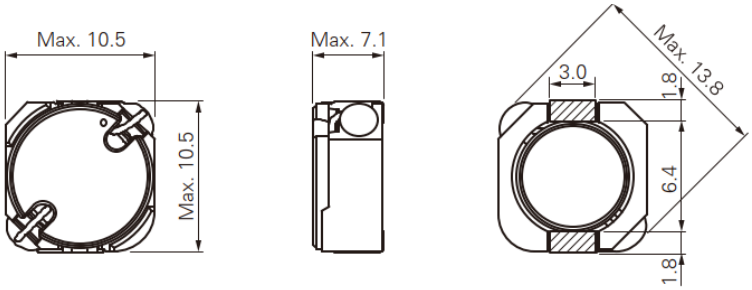
Packaging

- Carrier tape and reel packaging
- 12.9"diameter reel
- 500pcs per reel

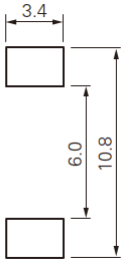
Applications

- Ideally Used in Notebook PC,DSC/DVC, Game Machine, etc as DC-DC converter inductors.

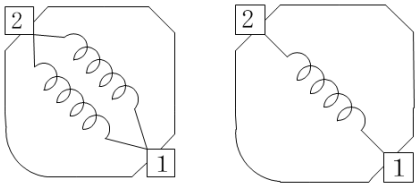
Dimension - [mm]



Land patterns - [mm]



Schematics



(2.2μH～10μH) (15μH～470μH)

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Electrical Characteristics

Part Name	Inductance (μH) [within] ※1	D.C.R .(mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) Max. (Typ.) ※2		Temperature Rise Current (A) (Typ.) ※3
			at 20℃	at 105℃	
CDRH10D68NP-2R2NC	2.2 ± 25%	7.20 (5.70)	9.80 (12.5)	8.00 (10.0)	(9.00)
CDRH10D68NP-3R3NC	3.3 ± 25%	8.50 (6.80)	8.40 (10.5)	6.80 (8.50)	(8.00)
CDRH10D68NP-4R7NC	4.7 ± 25%	9.80 (7.90)	7.90 (9.80)	6.50 (8.10)	(7.00)
CDRH10D68NP-6R0NC	6.0 ± 25%	14.0 (11.2)	6.50 (8.50)	5.20 (6.70)	(5.50)
CDRH10D68NP-8R2NC	8.2 ± 25%	15.8 (12.7)	5.10 (6.50)	4.00 (5.50)	(5.30)
CDRH10D68NP-100MC	10 ± 20%	21.5 (17.2)	4.80 (5.70)	3.80 (4.50)	(4.40)
CDRH10D68NP-150MC	15 ± 20%	34.5 (27.6)	4.50 (5.20)	3.60 (4.20)	(3.60)
CDRH10D68NP-180MC	18 ± 20%	37.0 (29.7)	3.60 (4.70)	2.90 (3.70)	(3.40)
CDRH10D68NP-220MC	22 ± 20%	40.2 (32.1)	3.00 (4.00)	2.60 (3.20)	(3.20)
CDRH10D68NP-330MC	33 ± 20%	60.4 (48.3)	2.70 (3.40)	2.20 (2.70)	(2.60)
CDRH10D68NP-470MC	47 ± 20%	106 (85.0)	2.40 (3.10)	2.00 (2.50)	(2.10)
CDRH10D68NP-680MC	68 ± 20%	150 (120)	2.00 (2.40)	1.60 (1.95)	(1.70)
CDRH10D68NP-820MC	82 ± 20%	163 (131)	1.70 (2.15)	1.40 (1.75)	(1.60)
CDRH10D68NP-101MC	100 ± 20%	205 (164.)	1.50 (1.88)	1.20 (1.50)	(1.50)
CDRH10D68NP-151MC	150 ± 20%	292 (234)	1.30 (1.60)	1.10 (1.25)	(1.30)
CDRH10D68NP-181MC	180 ± 20%	326 (261)	1.20 (1.50)	0.90 (1.15)	(1.20)
CDRH10D68NP-221MC	220 ± 20%	362 (290)	1.00 (1.25)	0.80 (1.10)	(1.10)
CDRH10D68NP-331MC	330 ± 20%	525 (420)	0.80 (1.00)	0.60 (0.82)	(0.90)
CDRH10D68NP-471MC	470 ± 20%	740 (592)	0.70 (0.88)	0.50 (0.70)	(0.80)

※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℃).

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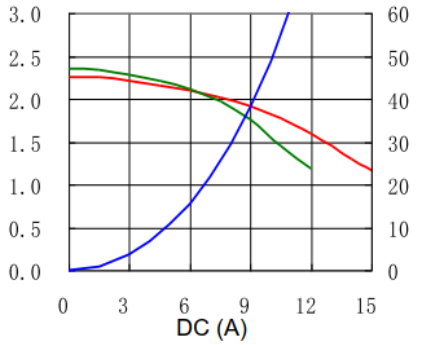
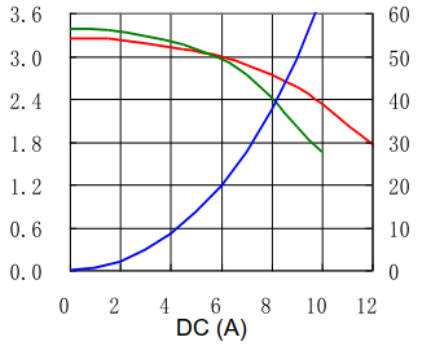
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

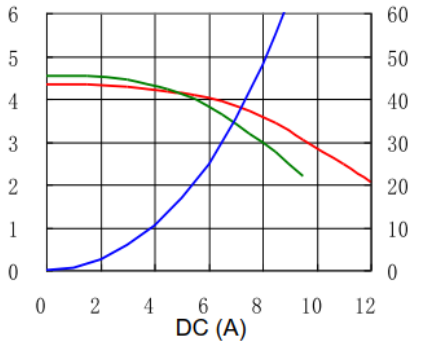
1. CDRH10D68NP-2R2NC



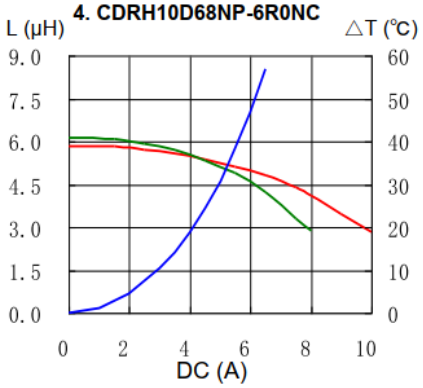
2. CDRH10D68NP-3R3NC



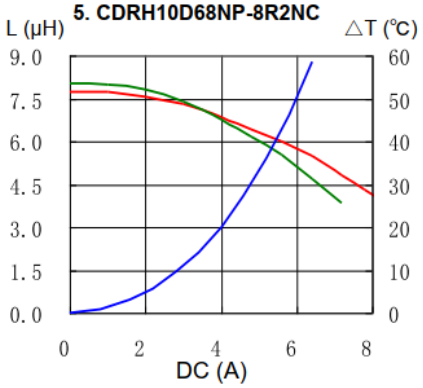
3. CDRH10D68NP-4R7NC



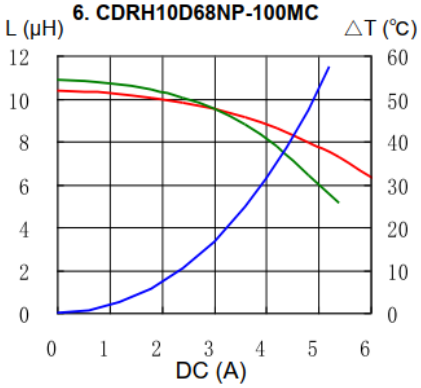
4. CDRH10D68NP-6R0NC



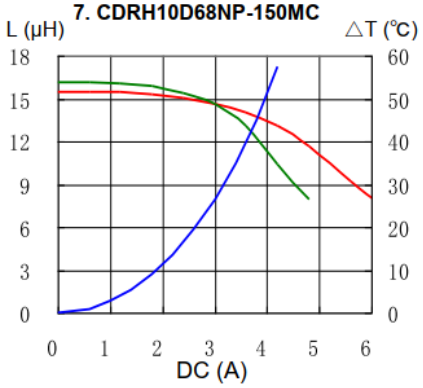
5. CDRH10D68NP-8R2NC



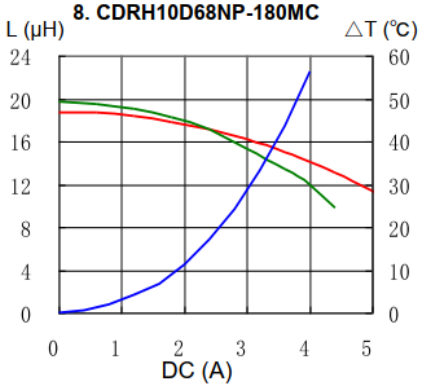
6. CDRH10D68NP-100MC



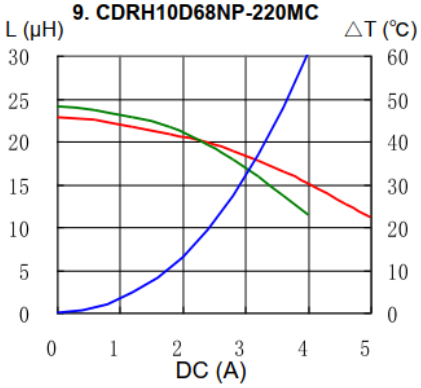
7. CDRH10D68NP-150MC



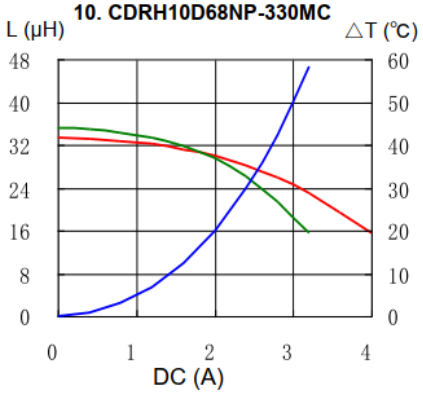
8. CDRH10D68NP-180MC



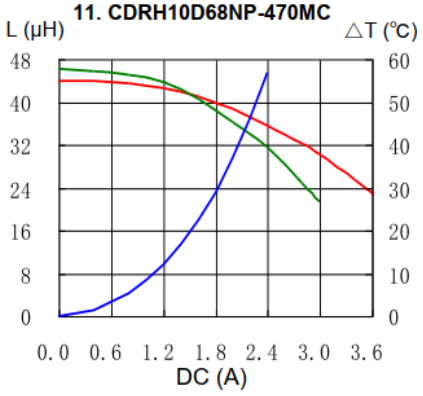
9. CDRH10D68NP-220MC



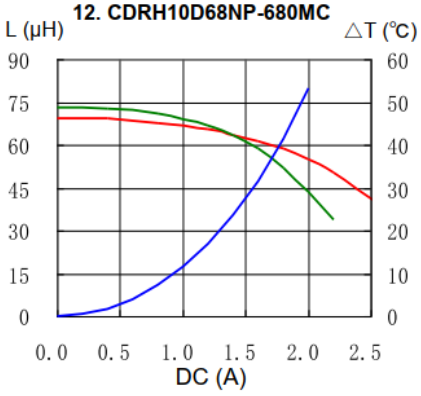
10. CDRH10D68NP-330MC



11. CDRH10D68NP-470MC



12. CDRH10D68NP-680MC



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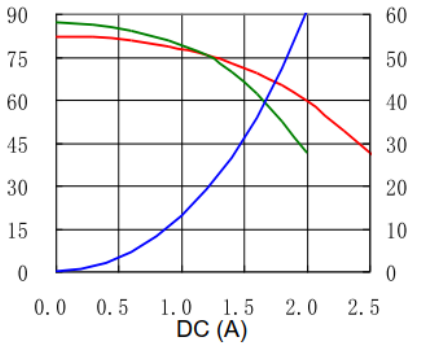
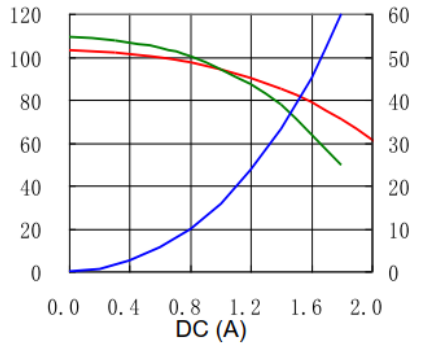
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

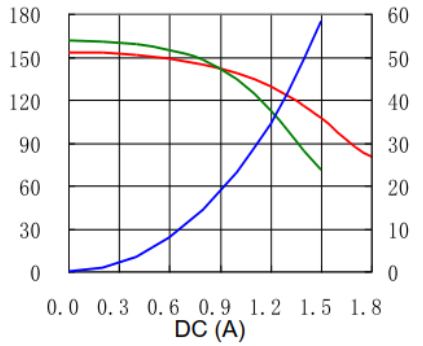
13. CDRH10D68NP-820MC



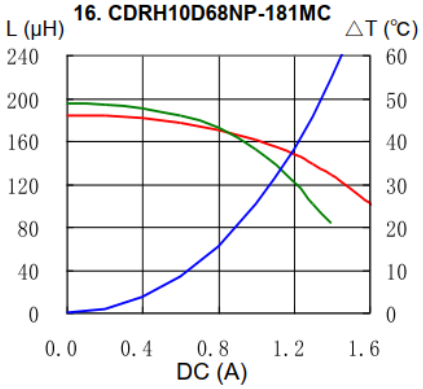
14. CDRH10D68NP-101MC



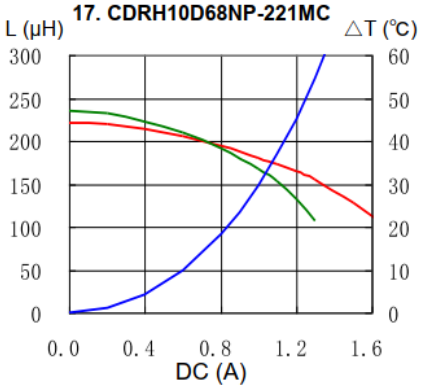
15. CDRH10D68NP-151MC



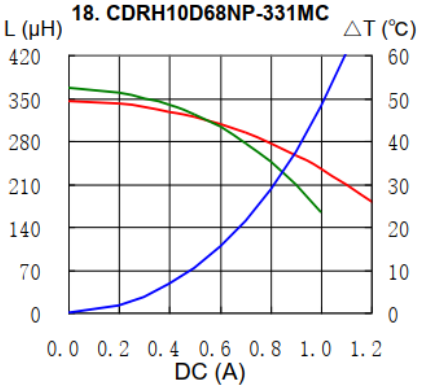
16. CDRH10D68NP-181MC



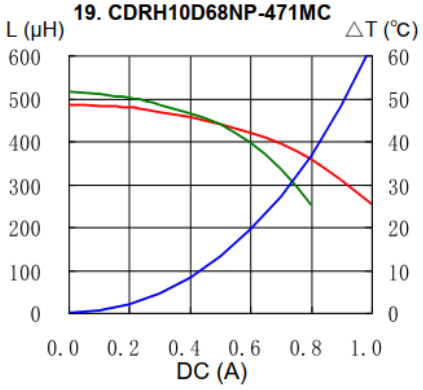
17. CDRH10D68NP-221MC



18. CDRH10D68NP-331MC



19. CDRH10D68NP-471MC



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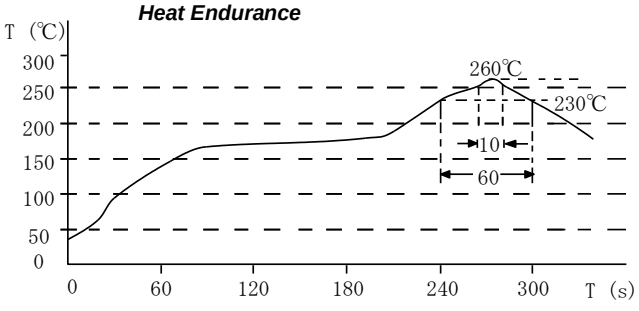
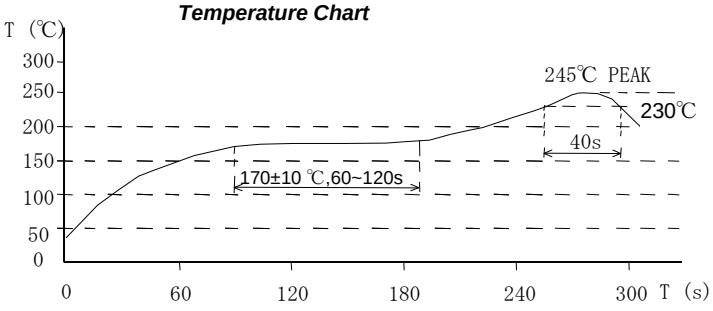
Solder Reflow Condition

Heat Endurance



Temperature Chart



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