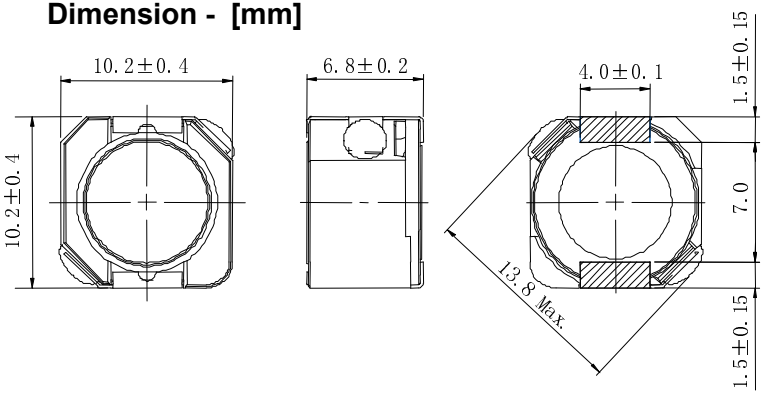
SMD Power Inductor
CDRH10D68R/T125

RoHS

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:10.6 × 10.6 × 7.0 mm Max.
- Product weight: 2.7g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualified with AEC-Q200.

Dimension - [mm]

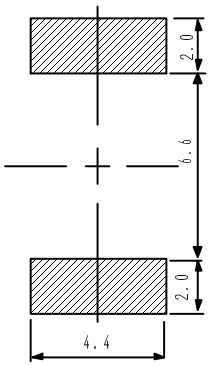


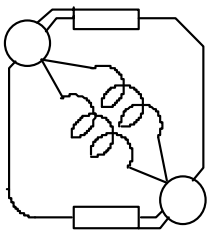
Environmental Data
- Operating temperature range: -40℃～ +125℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+125℃
- Solder reflow temperature: 260 ℃ peak.

Packaging
- Carrier tape and reel packaging

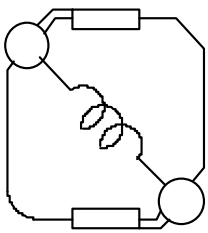
Applications
- Automotive.

Land pattern and Schematics - [mm]





(1.5μH～10μH)



(15μH～1.0mH)

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Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ)[Max.] (at20℃) ※2	Saturation current (A) ※3		Temperature rise current (A) ※4
				(at20℃)	(at125℃) (Typ)	
CDRH10D68RT125NP-1R5NC	1R5	1.5±30%	6.1(4.9)	11.00	8.50	10.50
CDRH10D68RT125NP-2R2NC	2R2	2.2±30%	7.1(5.7)	10.50	7.50	9.50
CDRH10D68RT125NP-3R3NC	3R3	3.3±30%	8.5(6.8)	7.80	5.60	8.30
CDRH10D68RT125NP-4R7NC	4R7	4.7±30%	9.9(7.9)	7.15	5.17	7.60
CDRH10D68RT125NP-6R2NC	6R2	6.2±30%	14.2(11.3)	5.95	4.14	6.45
CDRH10D68RT125NP-7R5NC	7R5	7.5±30%	16.4(13.0)	5.50	3.89	5.55
CDRH10D68RT125NP-100PC	100	10±25%	21.4(17.1)	4.40	3.60	4.40
CDRH10D68RT125NP-150PC	150	15±25%	30.6(24.5)	3.60	2.85	3.60
CDRH10D68RT125NP-220PC	220	22±25%	39.1(31.3)	3.10	2.47	3.10
CDRH10D68RT125NP-330PC	330	33±25%	59.1(47.3)	2.60	1.85	2.60
CDRH10D68RT125NP-470PC	470	47±25%	88.3(70.6)	2.00	1.60	2.00
CDRH10D68RT125NP-680PC	680	68±25%	125(100)	1.80	1.24	1.80
CDRH10D68RT125NP-101PC	101	100±25%	175(140)	1.50	1.05	1.50
CDRH10D68RT125NP-151PC	151	150±25%	250(200)	1.23	0.86	1.23
CDRH10D68RT125NP-221PC	221	220±25%	370(296)	1.00	0.73	1.00
CDRH10D68RT125NP-331PC	331	330±25%	465(372)	0.80	0.55	0.91
CDRH10D68RT125NP-471PC	471	470±25%	703(562)	0.68	0.50	0.72
CDRH10D68RT125NP-681PC	681	680±25%	1030(828)	0.60	0.40	0.61
CDRH10D68RT125NP-102PC	102	1000±25%	1560(1253)	0.45	0.33	0.49

※ 1 Measuring frequency inductance at 100kHz.

※ 2 ( ) are typical value

※ 3 Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

※ 4 Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

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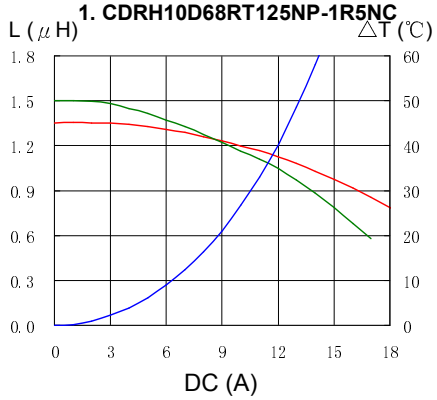
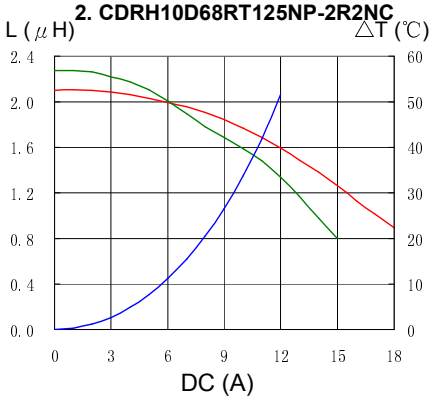
Saturation Current & Temperature Rise Graph

L (20℃) L (125℃) △T

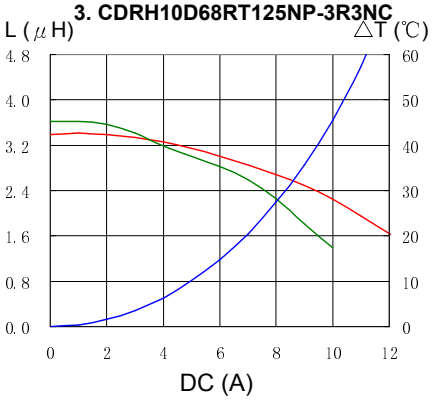
1. CDRH10D68RT125NP-1R5NC



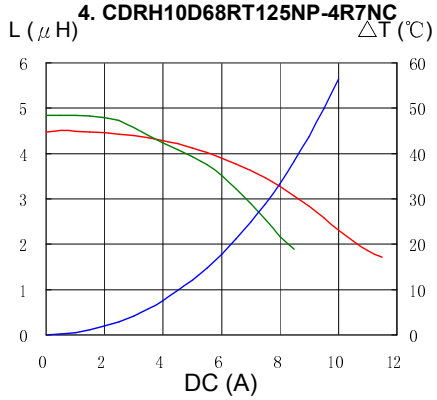
2. CDRH10D68RT125NP-2R2NC



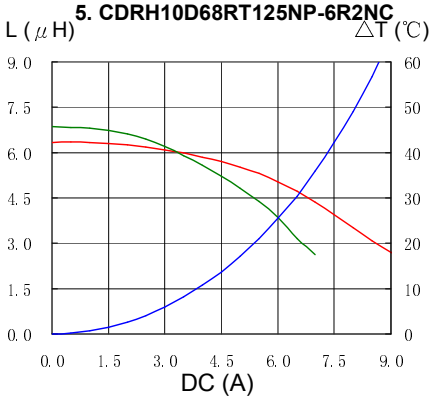
3. CDRH10D68RT125NP-3R3NC



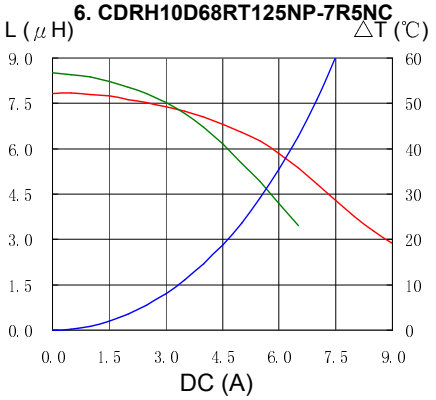
4. CDRH10D68RT125NP-4R7NC



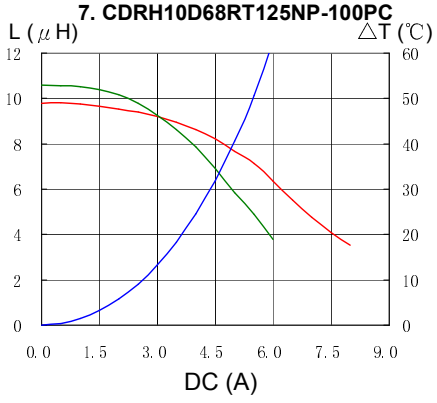
5. CDRH10D68RT125NP-6R2NC



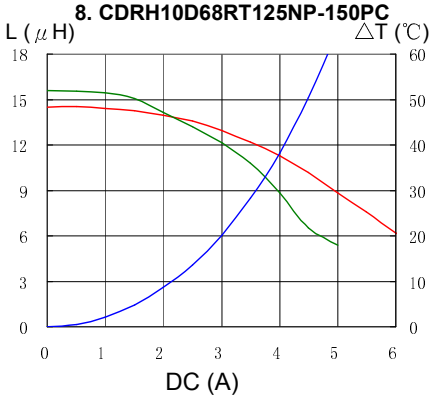
6. CDRH10D68RT125NP-7R5NC



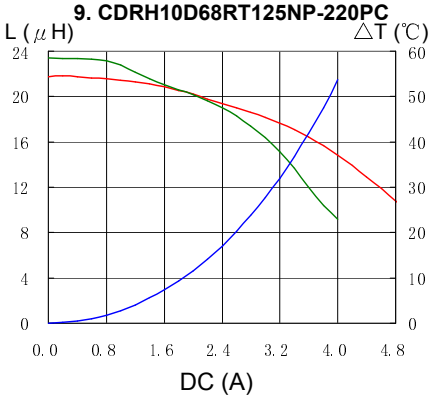
7. CDRH10D68RT125NP-100PC



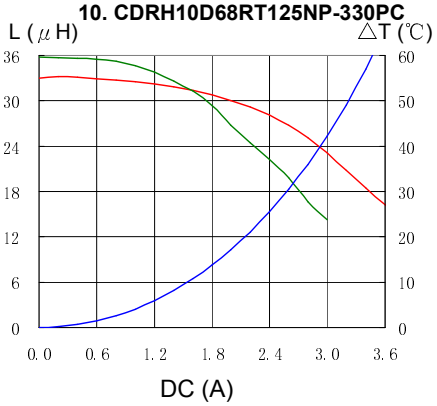
8. CDRH10D68RT125NP-150PC



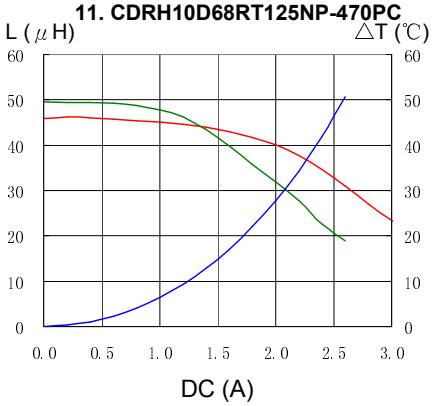
9. CDRH10D68RT125NP-220PC



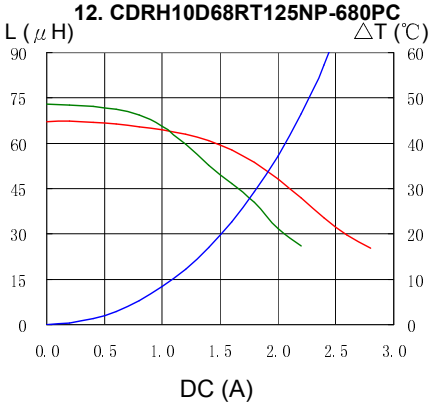
10. CDRH10D68RT125NP-330PC



11. CDRH10D68RT125NP-470PC



12. CDRH10D68RT125NP-680PC



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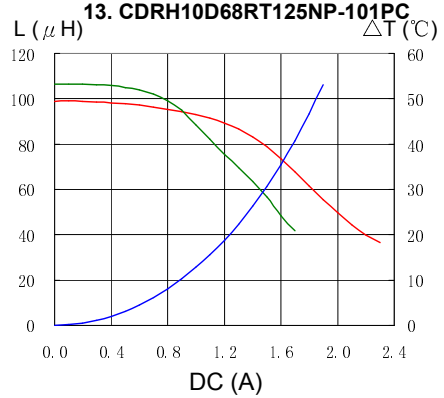
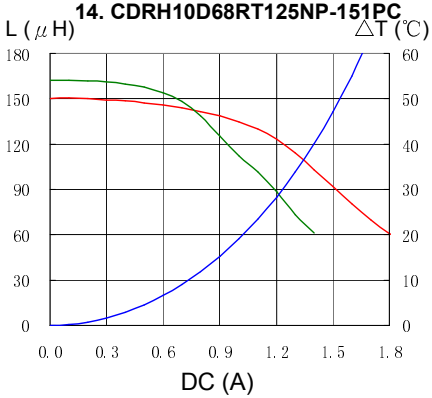
Saturation Current & Temperature Rise Graph

L (20℃) L (125℃) △T

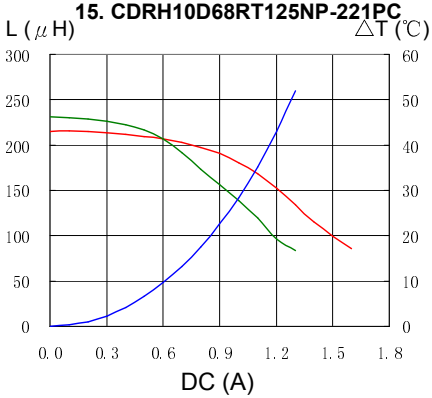
13. CDRH10D68RT125NP-101PC



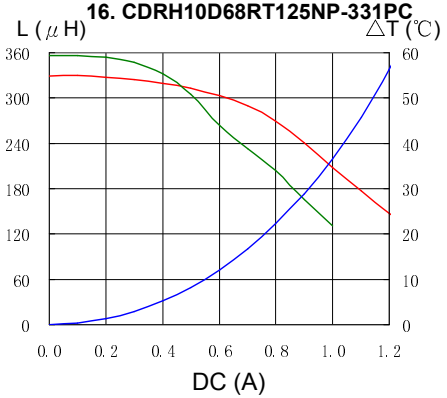
14. CDRH10D68RT125NP-151PC



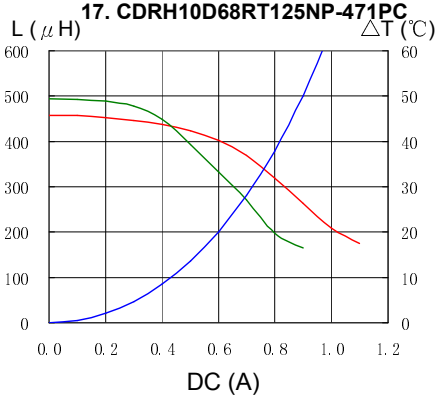
15. CDRH10D68RT125NP-221PC



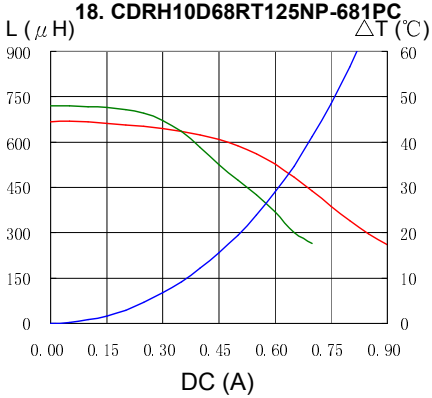
16. CDRH10D68RT125NP-331PC



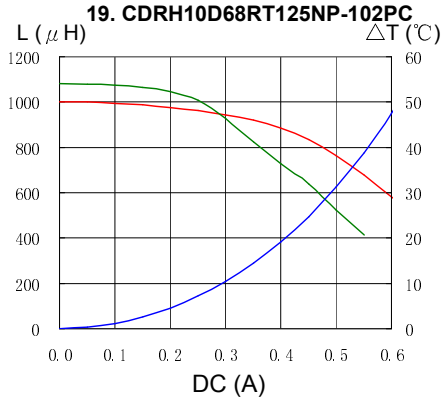
17. CDRH10D68RT125NP-471PC



18. CDRH10D68RT125NP-681PC



19. CDRH10D68RT125NP-102PC



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Solder Reflow Condition