SMD Power Inductor

CDRH10D68R/T125

Recommended Type



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
- Qualified with AEC-Q200

Environmental Data

- Operating Temperature: -40˚C to +125˚C (including self-heating)
- Storage temperature range: -40℃～+125℃

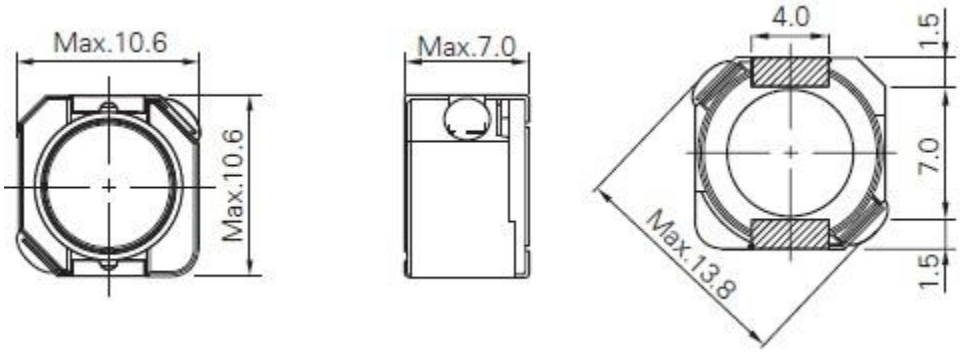
Packaging

- Carrier tape and reel packaging

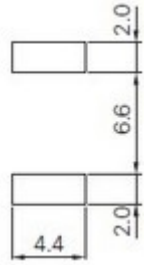
Applications

- High temp and high reliability automotive applications

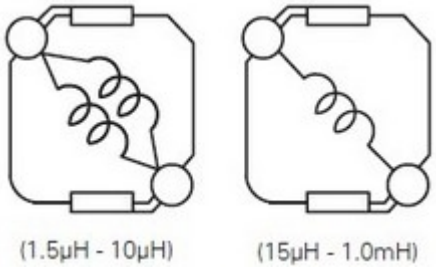
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

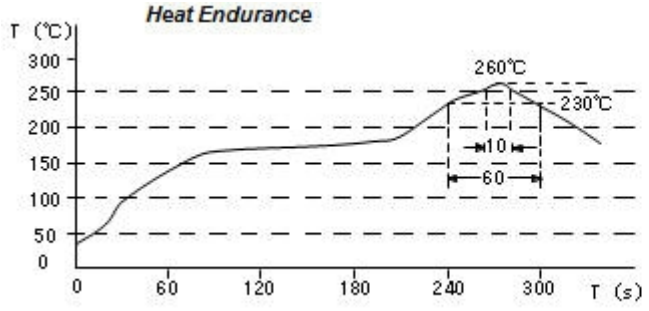
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ Max.(Typ.) (mΩ)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRH10D68RT125NP-1R5NC	1.50 ± 30%	6.10 (4.90)	11.00 (15.00)	10.50 (12.00)
CDRH10D68RT125NP-2R2NC	2.20 ± 30%	7.10 (5.70)	10.50 (13.60)	9.50 (11.60)
CDRH10D68RT125NP-3R3NC	3.30 ± 30%	8.50 (6.80)	7.80 (10.30)	8.30 (9.40)
CDRH10D68RT125NP-4R7NC	4.70 ± 30%	9.90 (7.90)	7.15 (8.52)	7.60 (8.52)
CDRH10D68RT125NP-6R2NC	6.20 ± 30%	14.20 (11.30)	5.95 (7.40)	6.45 (7.30)
CDRH10D68RT125NP-7R5NC	7.50 ± 30%	16.40 (13.00)	5.50 (7.00)	5.55 (6.30)
CDRH10D68RT125NP-100PC	10.00 ± 25%	21.40 (17.10)	4.40 (5.70)	4.40 (4.90)
CDRH10D68RT125NP-150PC	15.00 ± 25%	30.60 (24.50)	3.60 (4.68)	3.60 (4.05)
CDRH10D68RT125NP-220PC	22.00 ± 25%	39.10 (31.30)	3.10 (4.15)	3.10 (3.51)
CDRH10D68RT125NP-330PC	33.00 ± 25%	59.10 (47.30)	2.60 (3.13)	2.60 (2.92)
CDRH10D68RT125NP-470PC	47.00 ± 25%	88.30 (70.60)	2.00 (2.62)	2.00 (2.34)
CDRH10D68RT125NP-680PC	68.00 ± 25%	125 (100)	1.80 (2.20)	1.80 (2.06)
CDRH10D68RT125NP-101PC	100 ± 25%	175 (140)	1.50 (1.73)	1.50 (1.68)
CDRH10D68RT125NP-151PC	150 ± 25%	250 (200)	1.23 (1.46)	1.23 (1.40)
CDRH10D68RT125NP-221PC	220 ± 25%	370 (296)	1.00 (1.25)	1.00 (1.16)
CDRH10D68RT125NP-331PC	330 ± 25%	465 (372)	0.80 (0.97)	0.91 (1.04)
CDRH10D68RT125NP-471PC	470 ± 25%	703 (562)	0.68 (0.83)	0.72 (0.82)
CDRH10D68RT125NP-681PC	680 ± 25%	1030 (828)	0.60 (0.68)	0.61 (0.68)
CDRH10D68RT125NP-102PC	1000 ± 25%	1560 (1253)	0.45 (0.56)	0.49 (0.55)

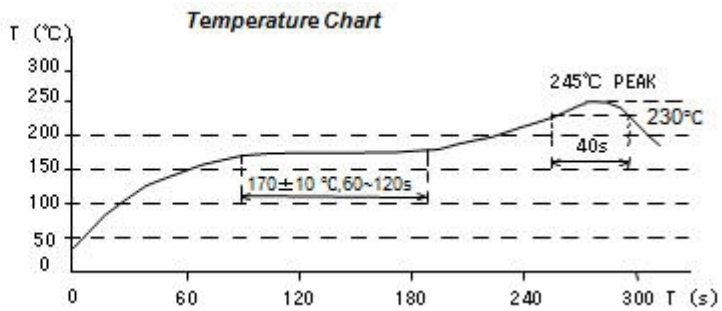
※1.Inductance measuring condition: at 100kHz.

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

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

Solder Reflow Condition





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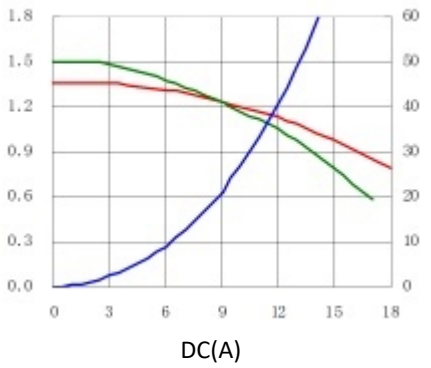
CDRH10D68R/T125

Recommended Type

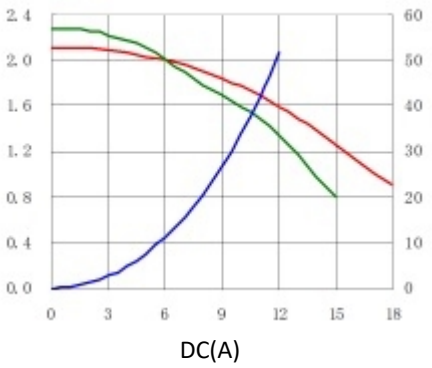
Saturation Current & Temperature Rise Graph

L (20°C) L (125°C) ΔT

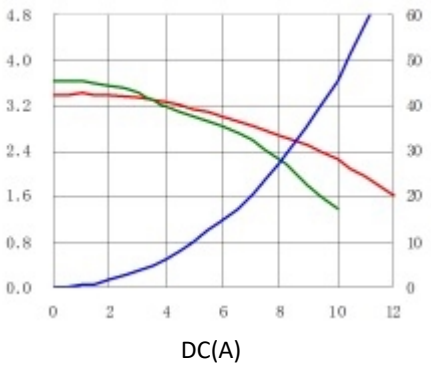
1. CDRH10D68RT125NP-1R5NC



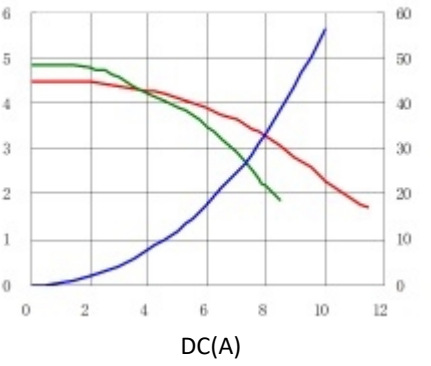
2. CDRH10D68RT125NP-2R2NC



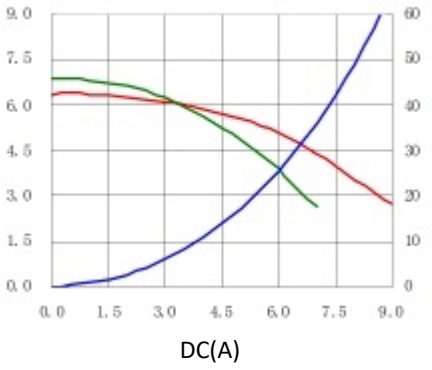
3. CDRH10D68RT125NP-3R3NC



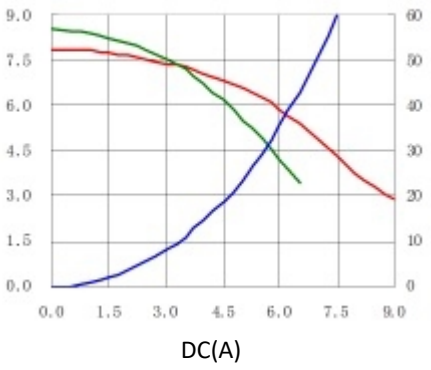
4. CDRH10D68RT125NP-4R7NC



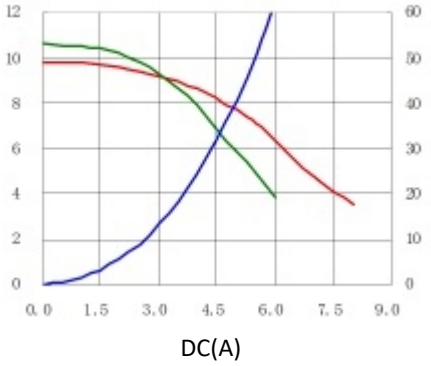
5. CDRH10D68RT125NP-6R2NC



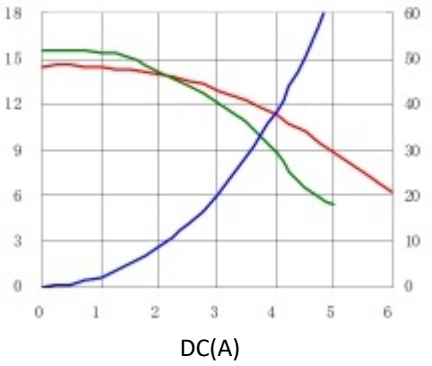
6. CDRH10D68RT125NP-7R5NC



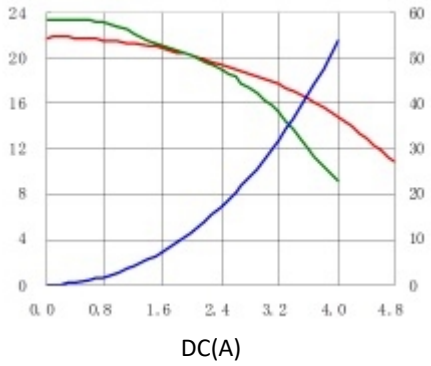
7. CDRH10D68RT125NP-100PC



8. CDRH10D68RT125NP-150PC



9. CDRH10D68RT125NP-220PC



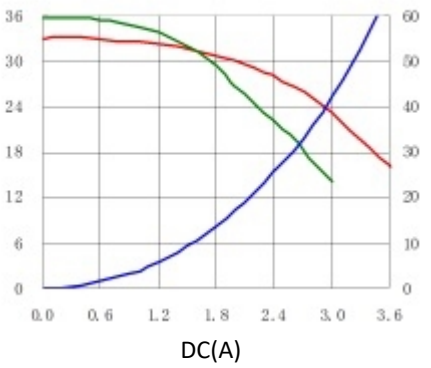
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SMD Power Inductor

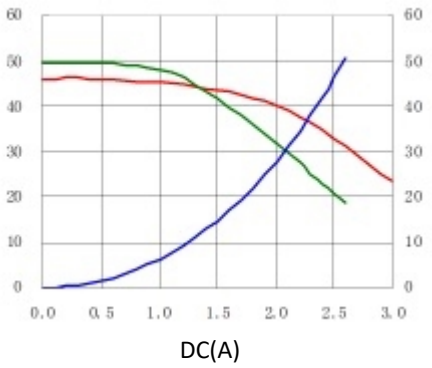
CDRH10D68R/T125

Recommended Type

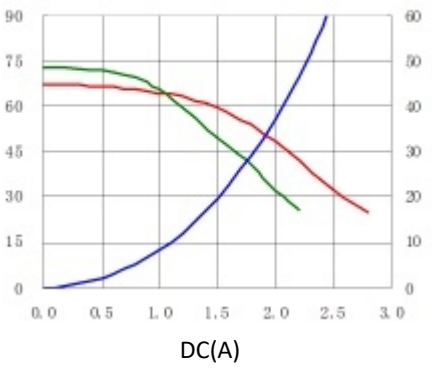
10. CDRH10D68RT125NP-330PC



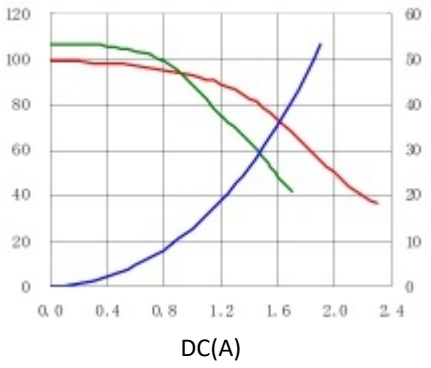
11. CDRH10D68RT125NP-470PC



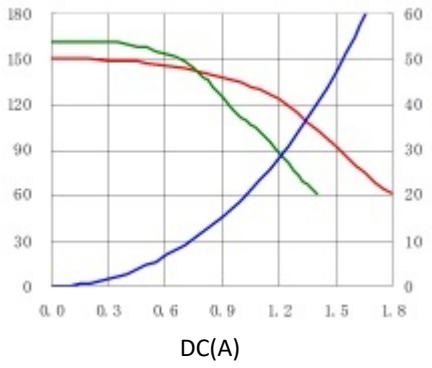
12. CDRH10D68RT125NP-680PC



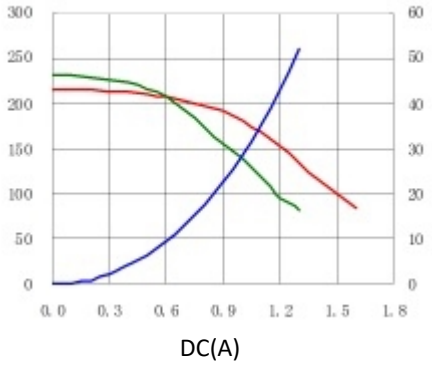
13. CDRH10D68RT125NP-101PC



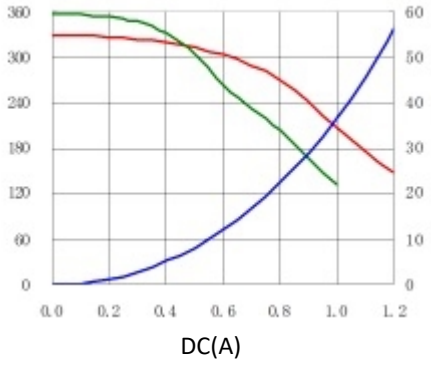
14. CDRH10D68RT125NP-151PC



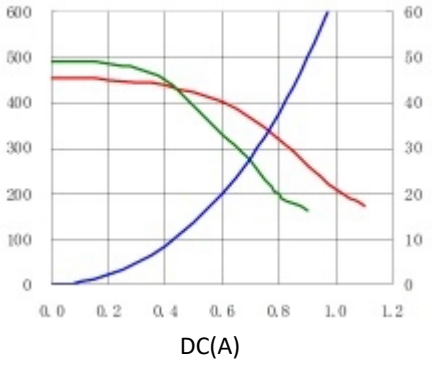
15. CDRH10D68RT125NP-221PC



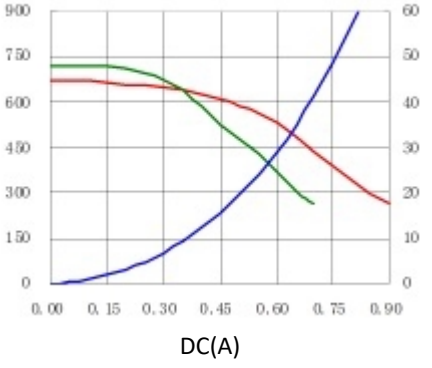
16. CDRH10D68RT125NP-331PC



17. CDRH10D68RT125NP-471PC



18. CDRH10D68RT125NP-681PC



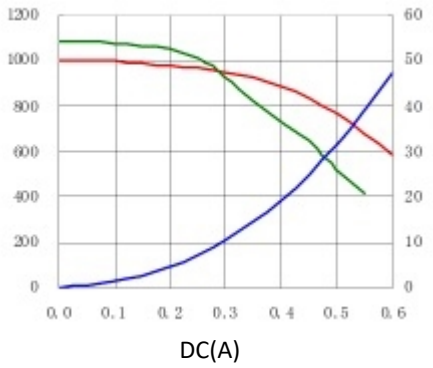
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CDRH10D68R/T125

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19. CDRH10D68RT125NP-102PC



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