

SMD Power Inductor

CDRH169RB



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L×W×H: 16.5×16.5×10.0mm Max.
- Product weight: 8.2g(Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

- Operating temperature range: -40°C~+105°C(including coil's self temperature rise))
- Storage temperature range: -40°C~+105°C

Packaging

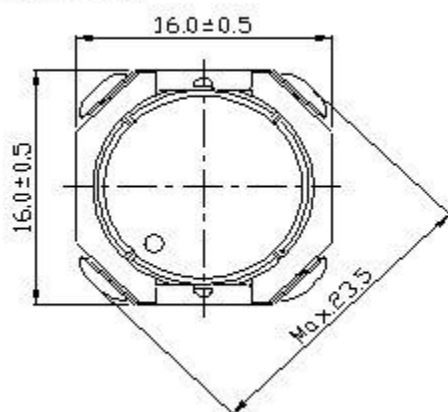
- Carrier tape and reel packaging.
- 13.0" diameter reel
- 200pcs per reel.

Applications

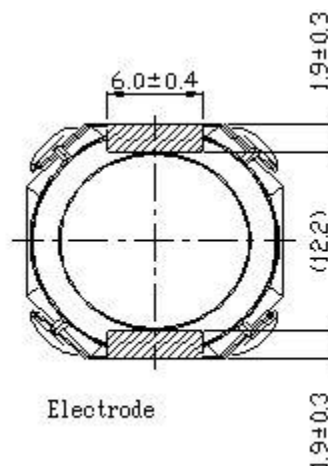
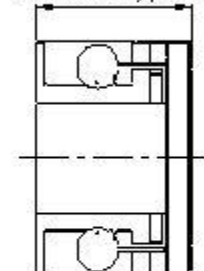
- Ideally used in Game machine, Notebook PC, LCD TV, DVD, STB, Projector etc as DC-DC converter inductors.

Dimension - [mm]

(1) 10μH~33μH

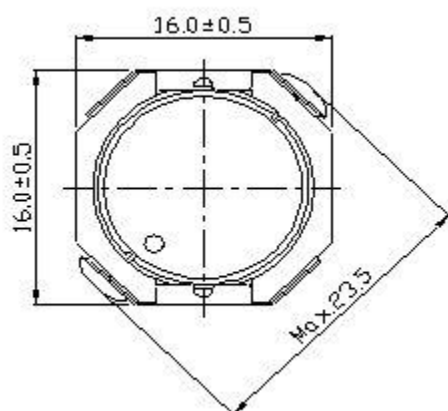


Max 10.0(Typ. 9.8)

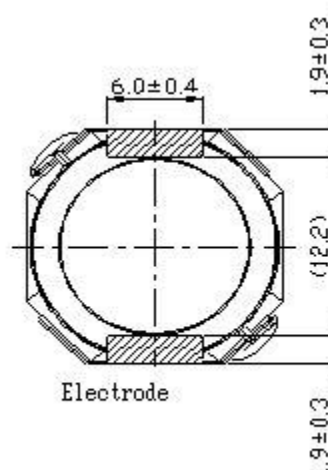
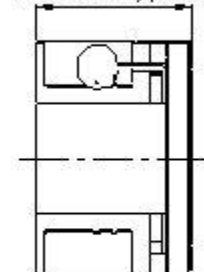


Electrode

(2) 47μH~4.7mH



Max 10.0(Typ. 9.8)



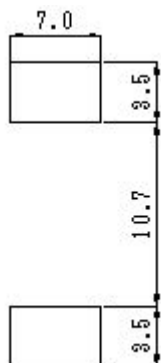
Electrode

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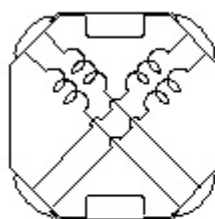
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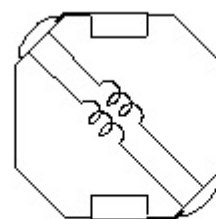
Recommended Land pattern - [mm]



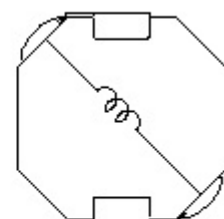
Wire Connection



(10 μ H ~ 33 μ H)



(47 μ H ~ 100 μ H)



(120 μ H ~ 4.7mH)

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Electrical Characteristics

Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2		Temperature Rise Current (A) Max.(Typ.) ※3
			20°C	105°C	
CDRH169RBNP-100MC	10.00 $\pm$ 20%	9.30 (7.40)	11.00 (12.60)	8.50 (9.80)	(9.20)
CDRH169RBNP-150MC	15.00 $\pm$ 20%	12.50 (10.00)	9.00 (10.40)	7.00 (8.10)	(7.50)
CDRH169RBNP-220MC	22.00 $\pm$ 20%	19.00 (15.00)	7.50 (8.75)	6.00 (6.90)	(6.30)
CDRH169RBNP-330MC	33.00 $\pm$ 20%	28.00 (22.00)	6.00 (6.90)	4.60 (5.40)	(5.00)
CDRH169RBNP-470MC	47.00 $\pm$ 20%	36.00 (29.00)	5.00 (5.85)	3.80 (4.50)	(4.30)
CDRH169RBNP-680MC	68.00 $\pm$ 20%	51.00 (41.00)	4.20 (4.90)	3.30 (3.85)	(3.40)
CDRH169RBNP-101MC	100 $\pm$ 20%	79.00 (63.00)	3.40 (4.00)	2.70 (3.15)	(2.90)
CDRH169RBNP-121MC	120 $\pm$ 20%	107.50 (86.00)	3.20 (3.80)	2.50 (3.00)	(2.70)
CDRH169RBNP-151MC	150 $\pm$ 20%	121 (97.00)	2.80 (3.25)	2.20 (2.56)	(2.20)
CDRH169RBNP-221MC	220 $\pm$ 20%	150 (120)	2.30 (2.70)	1.80 (2.12)	(1.90)
CDRH169RBNP-331MC	330 $\pm$ 20%	270 (220)	1.80 (2.14)	1.40 (1.65)	(1.40)
CDRH169RBNP-471MC	470 $\pm$ 20%	370 (300)	1.60 (1.85)	1.20 (1.42)	(1.20)
CDRH169RBNP-561MC	560 $\pm$ 20%	460 (370)	1.50 (1.70)	1.10 (1.30)	(1.05)
CDRH169RBNP-681MC	680 $\pm$ 20%	520 (410)	1.30 (1.50)	1.00 (1.18)	(1.00)
CDRH169RBNP-102MC	1000 $\pm$ 20%	760 (610)	1.05 (1.24)	0.80 (0.95)	(0.85)
CDRH169RBNP-122MC	1200 $\pm$ 20%	830 (660)	0.95 (1.14)	0.75 (0.88)	(0.83)
CDRH169RBNP-152MC	1500 $\pm$ 20%	1050 (840)	0.85 (1.00)	0.65 (0.78)	(0.72)
CDRH169RBNP-222MC	2200 $\pm$ 20%	1500 (1200)	0.70 (0.84)	0.55 (0.65)	(0.60)
CDRH169RBNP-332MC	3300 $\pm$ 20%	2130 (1710)	0.60 (0.70)	0.45 (0.54)	(0.49)
CDRH169RBNP-392MC	3900 $\pm$ 20%	2920 (2340)	0.56 (0.65)	0.43 (0.52)	(0.42)
CDRH169RBNP-472MC	4700 $\pm$ 20%	3190 (2550)	5.00 (0.58)	(0.40)	(0.40)

※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.

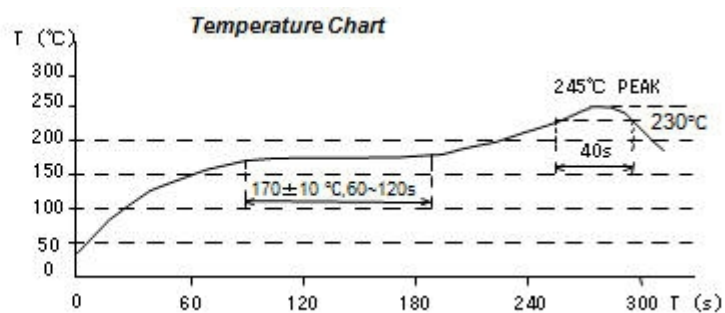
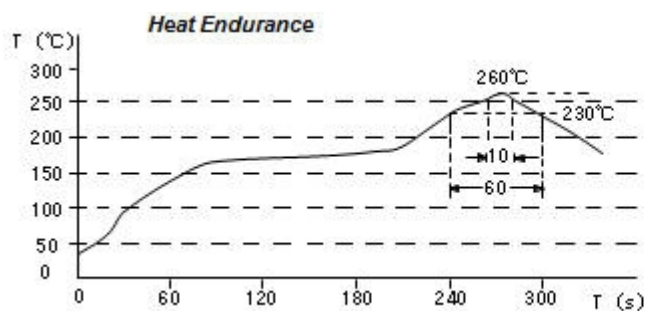
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Solder Reflow Condition



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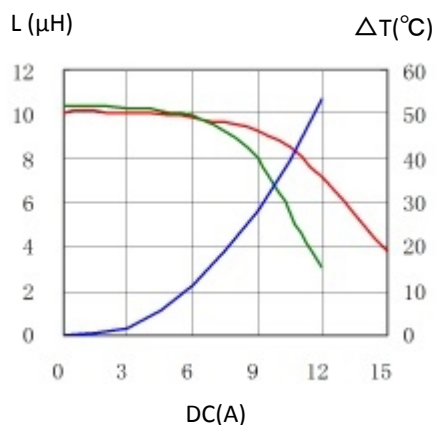
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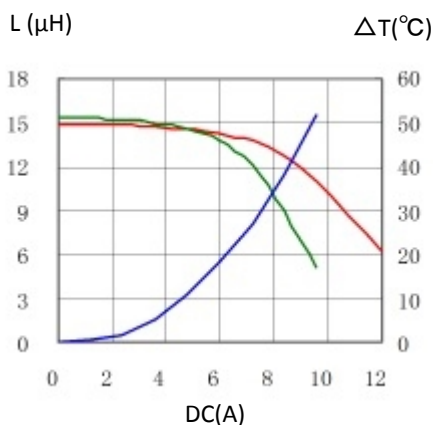
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

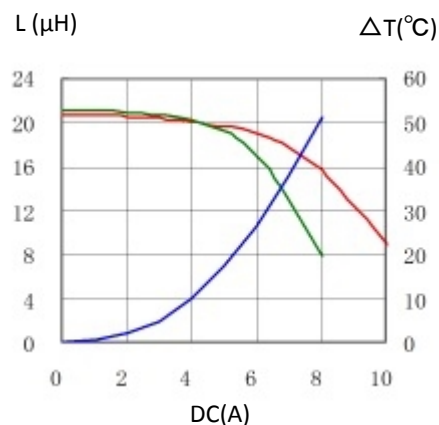
1. CDRH169RBNP-100MC



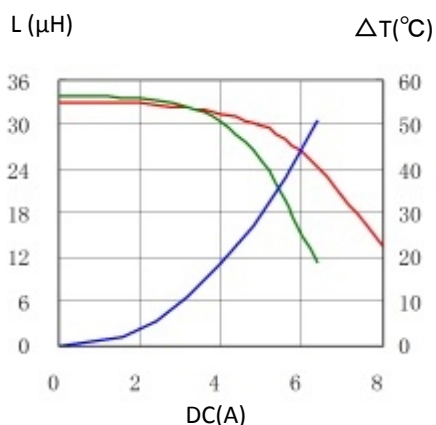
2. CDRH169RBNP-150MC



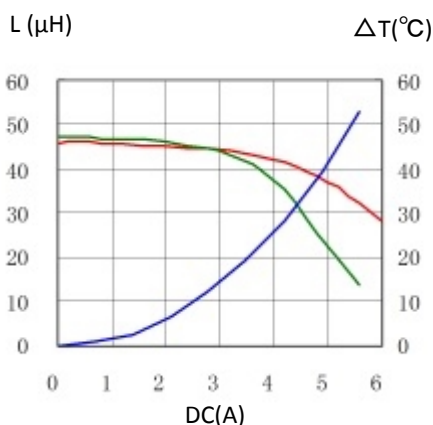
3. CDRH169RBNP-220MC



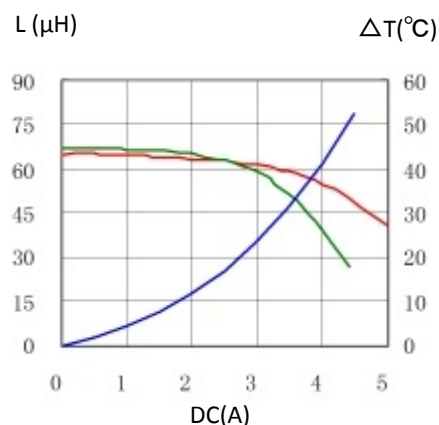
4. CDRH169RBNP-330MC



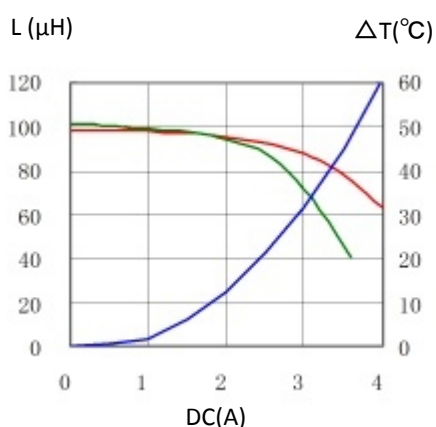
5. CDRH169RBNP-470MC



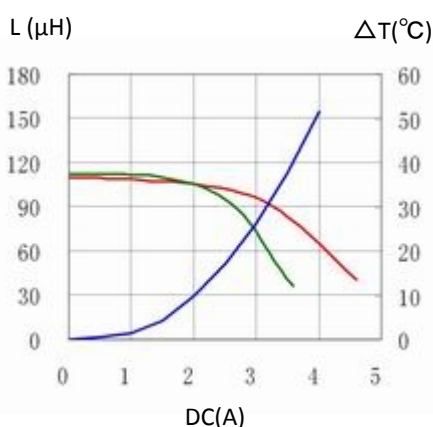
6. CDRH169RBNP-680MC



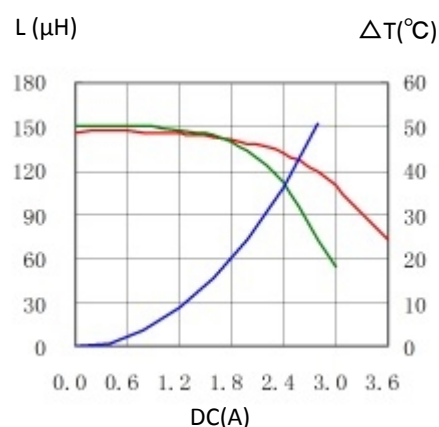
7. CDRH169RBNP-101MC



8. CDRH169RBNP-121MC



9. CDRH169RBNP-151MC

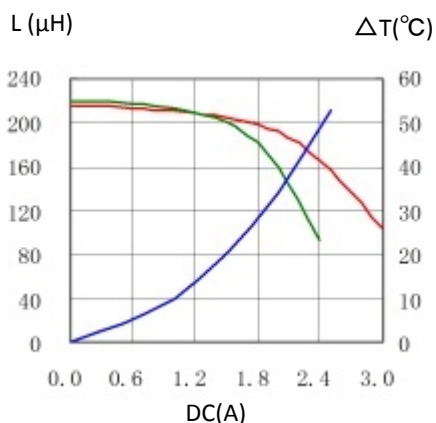


SMD Power Inductor

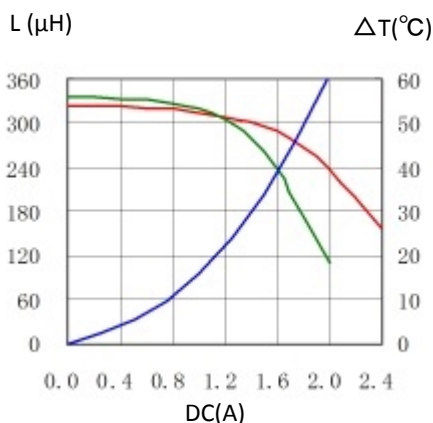
CDRH169RB



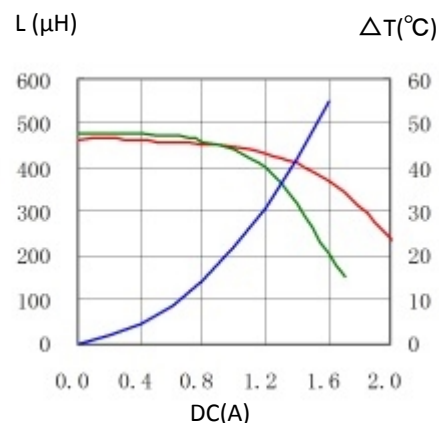
10. CDRH169RBNP-221MC



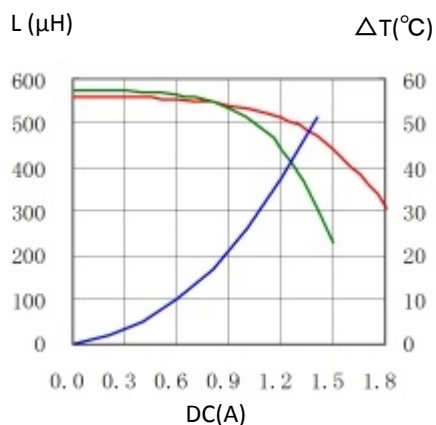
11. CDRH169RBNP-331MC



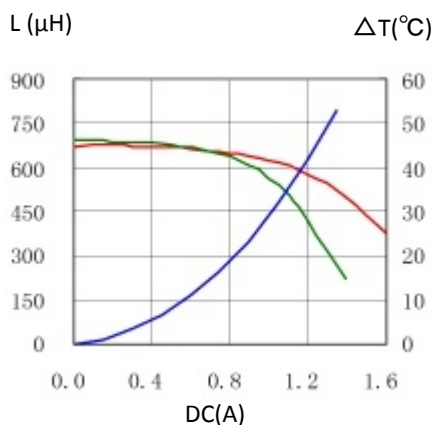
12. CDRH169RBNP-471MC



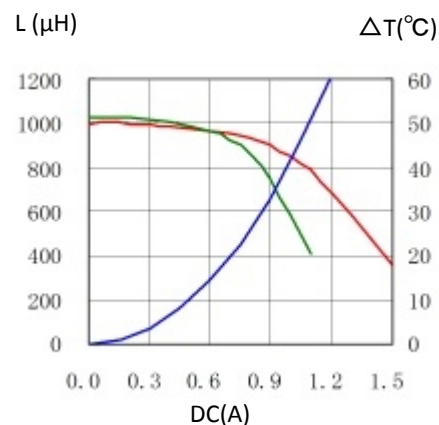
13. CDRH169RBNP-561MC



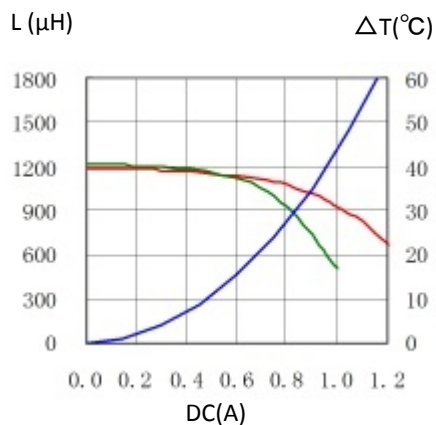
14. CDRH169RBNP-681MC



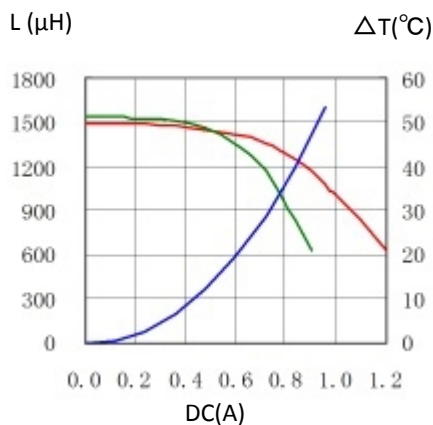
15. CDRH169RBNP-102MC



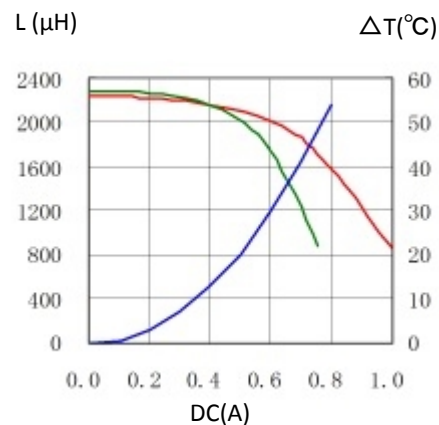
16. CDRH169RBNP-122MC



17. CDRH169RBNP-152MC



18. CDRH169RBNP-222MC

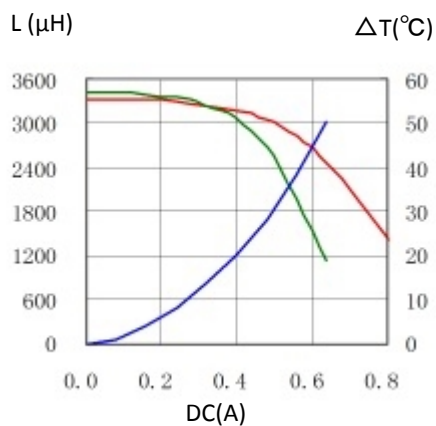


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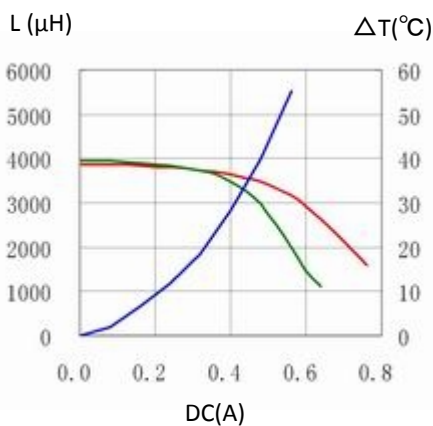
CDRH169RB



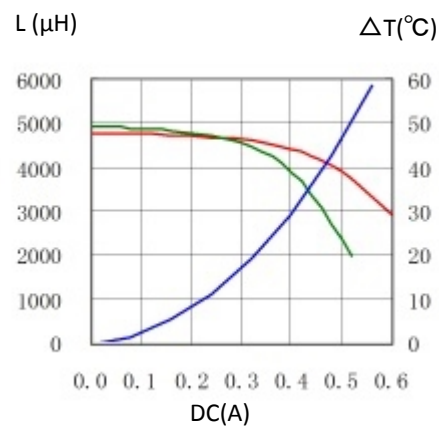
19. CDRH169RBNP-332MC



20. CDRH169RBNP-392MC



21. CDRH169RBNP-472MC



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