

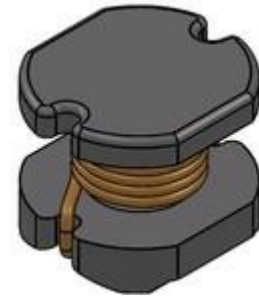
SMD Power Inductor

CD54/DS



Description

- Ferrite core construction
- Magnetically unshielded
- LxWxH: 6.1x5.5x4.85mm Max.
- Product weight: 0.55g (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

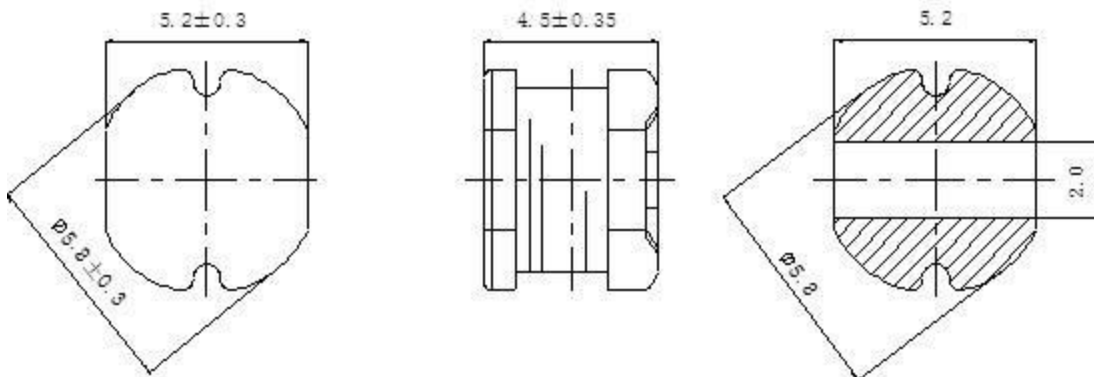
Packaging

- Carrier tape and reel packaging
- 1500pcs per reel

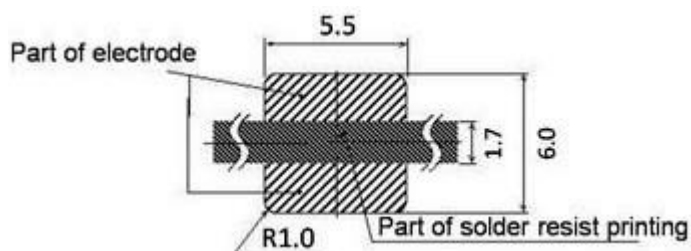
Applications

- DC/DC converter for CPU in notebook PC
- Smart phone, LCD displays, HDDs, DVDs, SSDs, DSCs, PDAs etc.

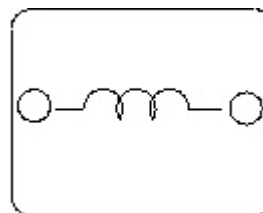
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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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
CD54DS-1R2PC	1.20	18.00 (15.00)	5.50 (6.50)	(4.20)
CD54DS-1R5PC	1.50	22.00 (18.00)	4.90 (5.70)	(4.00)
CD54DS-2R2PC	2.20	25.00 (21.00)	4.30 (5.10)	(3.80)
CD54DS-3R3PC	3.30	32.00 (26.00)	3.60 (4.20)	(3.40)
CD54DS-4R7MC	4.70	39.00 (32.00)	3.00 (3.60)	(3.00)
CD54DS-6R8MC	6.80	51.00 (42.00)	2.50 (3.00)	(2.60)
CD54DS-100MC	10.00	70.00 (58.00)	2.00 (2.40)	(2.20)
CD54DS-120MC	12.00	87.00 (72.00)	1.80 (2.10)	(2.10)
CD54DS-150MC	15.00	102 (85.00)	1.70 (2.00)	(2.00)
CD54DS-180MC	18.00	110 (91.00)	1.50 (1.80)	(1.70)
CD54DS-220MC	22.00	140 (116)	1.40 (1.60)	(1.60)
CD54DS-270MC	27.00	176 (146)	1.20 (1.40)	(1.50)
CD54DS-330MC	33.00	197 (164)	1.10 (1.30)	(1.30)
CD54DS-390MC	39.00	246 (205)	1.00 (1.20)	(1.20)
CD54DS-470MC	47.00	383 (239)	0.94 (1.10)	(1.05)
CD54DS-560MC	56.00	332 (277)	0.85 (1.00)	(1.00)
CD54DS-680MC	68.00	402 (335)	0.77 (0.90)	(0.95)
CD54DS-820MC	82.00	530 (442)	0.71 (0.83)	(0.75)
CD54DS-101MC	100	663 (552)	0.62 (0.73)	(0.70)
CD54DS-121MC	120	827 (689)	0.56 (0.66)	(0.65)
CD54DS-151MC	150	1047 (872)	0.50 (0.59)	(0.55)
CD54DS-181MC	180	1144 (953)	0.46 (0.54)	(0.53)
CD54DS-221MC	220	1460 (1216)	0.41 (0.49)	(0.48)

※1 Measuring frequency Inductance at 100kHz 1V.

※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 10% lower than its initial value.

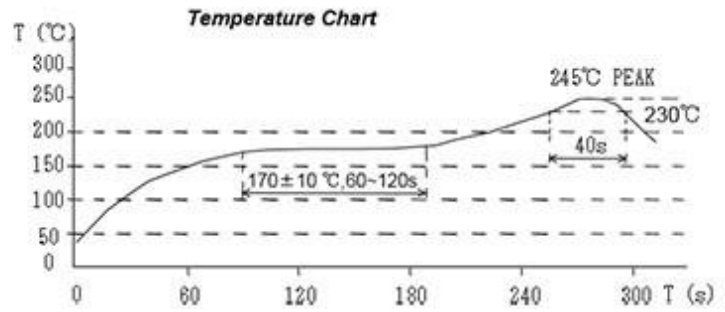
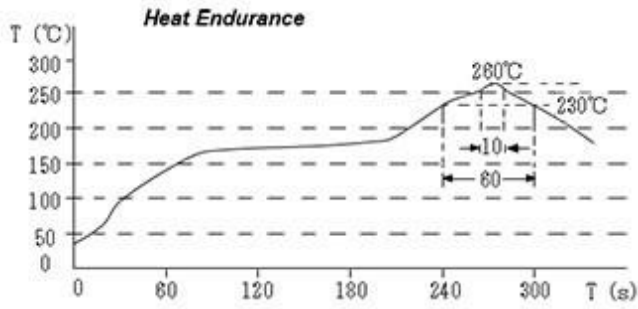
※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).

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 Recommended Type

Solder Reflow Condition



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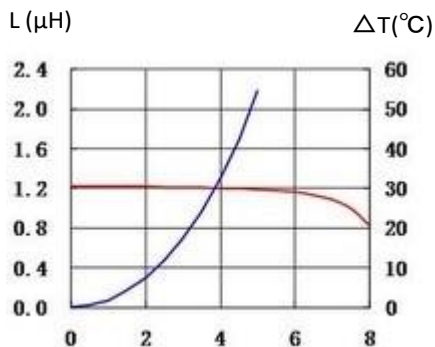
CD54/DS



Saturation Current & Temperature Rise Graph

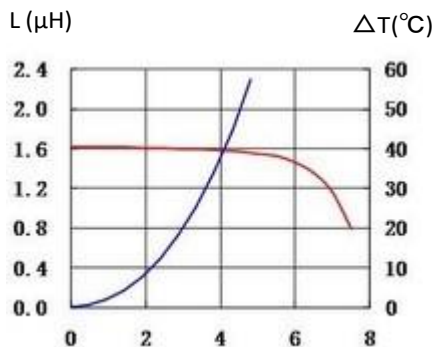
— L (20°C) — ΔT

1. CD54DS-1R2PC



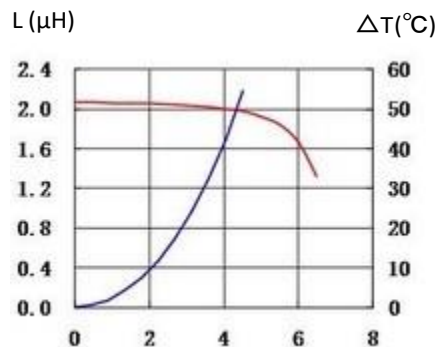
DC(A)

2. CD54DS-1R5PC



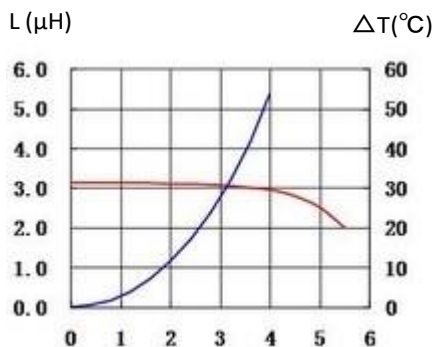
DC(A)

3. CD54DS-2R2PC



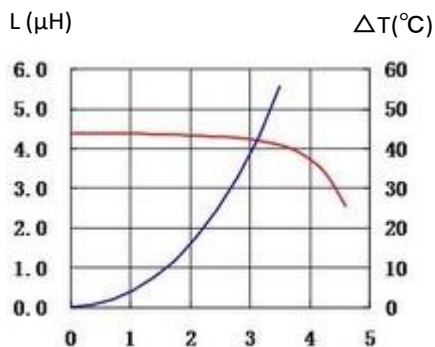
DC(A)

4. CD54DS-3R3PC



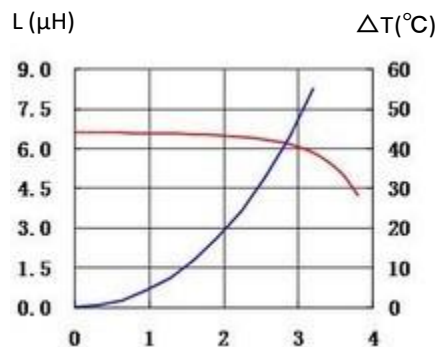
DC(A)

5. CD54DS-4R7MC



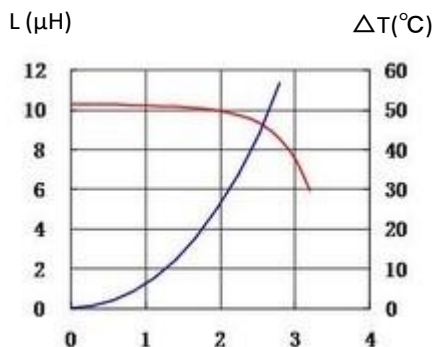
DC(A)

6. CD54DS-6R8MC



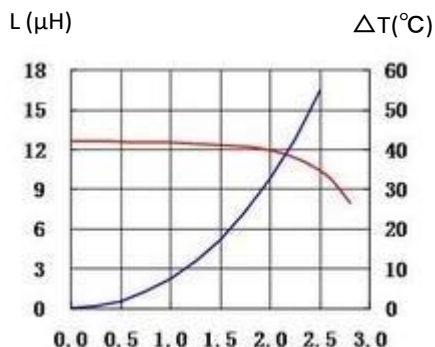
DC(A)

7. CD54DS-100MC



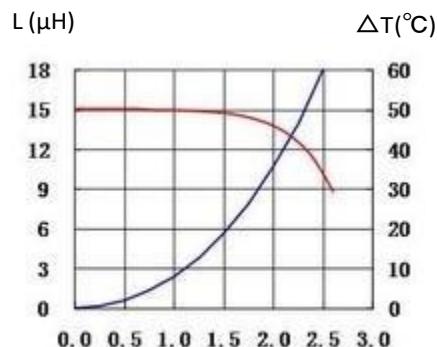
DC(A)

8. CD54DS-120MC



DC(A)

9. CD54DS-150MC



DC(A)

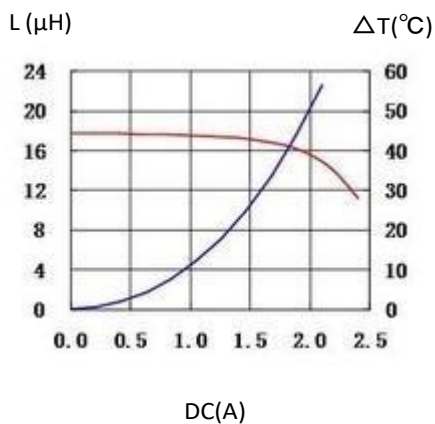
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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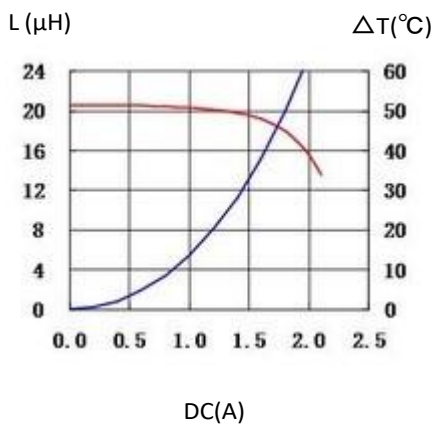
CD54/DS



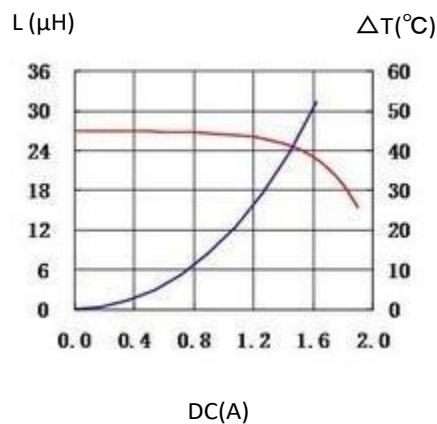
10. CD54DS-180MC



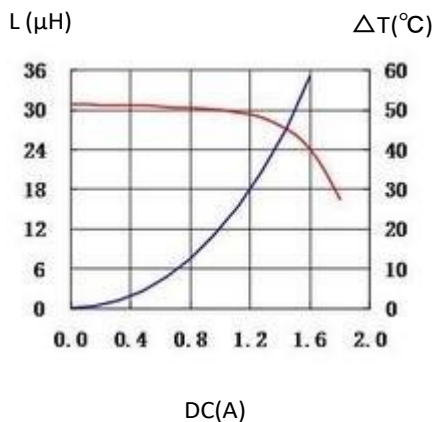
11. CD54DS-220MC



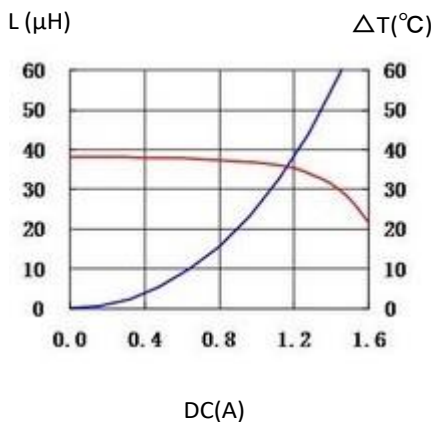
12. CD54DS-270MC



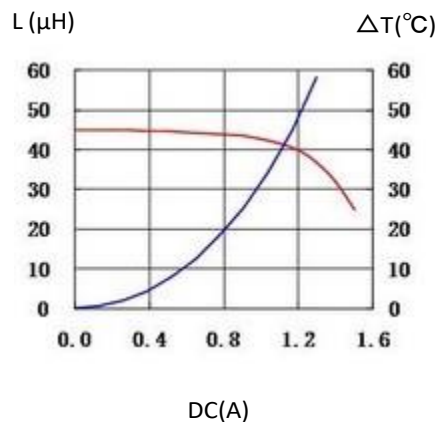
13. CD54DS-330MC



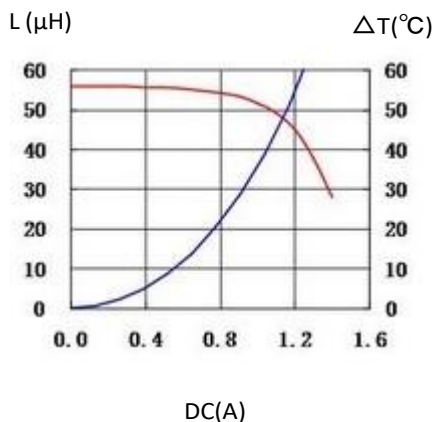
14. CD54DS-390MC



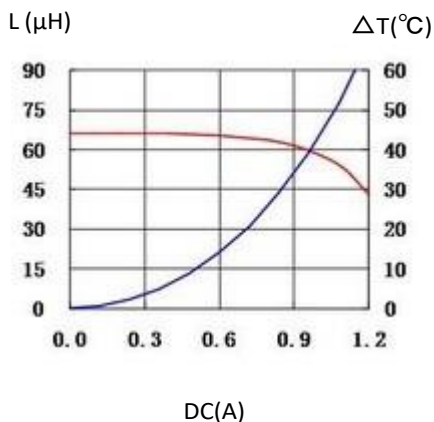
15. CD54DS-470MC



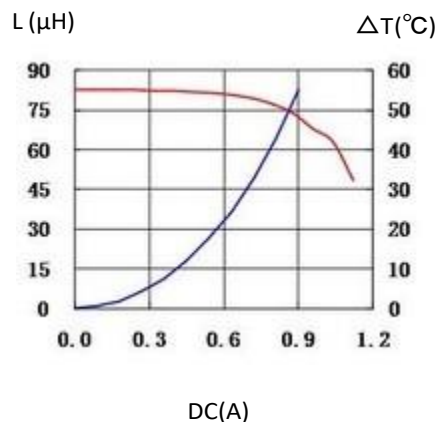
16. CD54DS-560MC



17. CD54DS-680MC



18. CD54DS-820MC

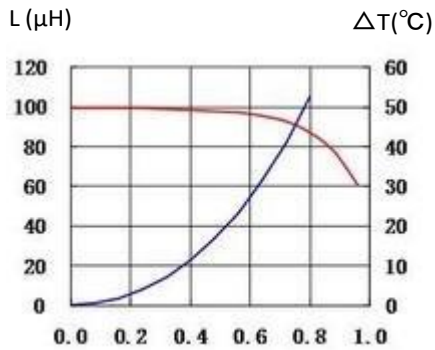


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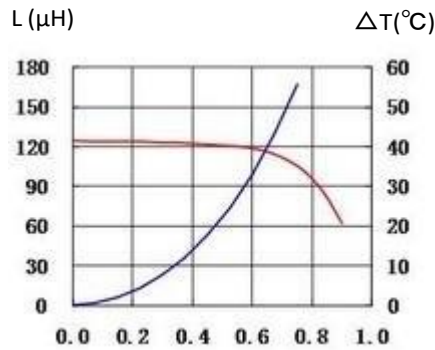


19. CD54DS-101MC



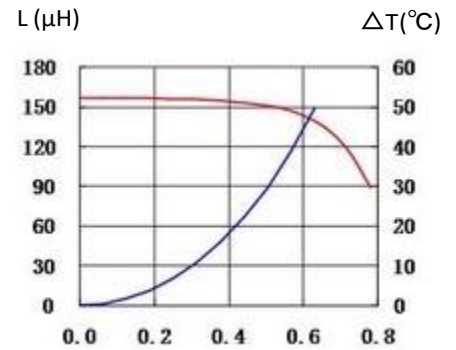
DC(A)

20. CD54DS-121MC



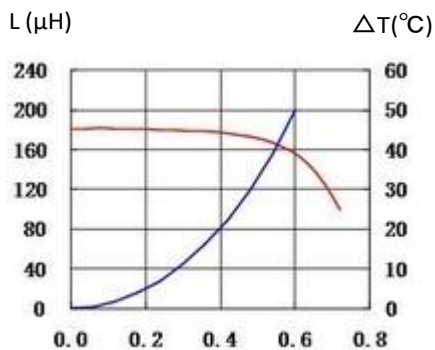
DC(A)

21. CD54DS-151MC



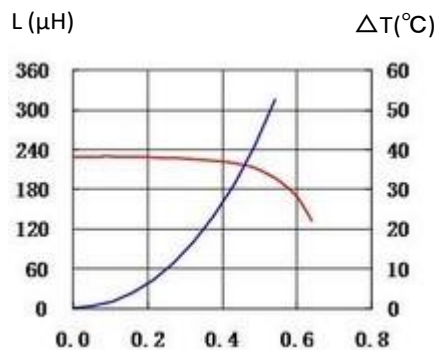
DC(A)

22. CD54DS-181MC



DC(A)

23. CD54DS-221MC



DC(A)



For sales office information, please [click here](#) to visit our website.