

SMD Power Inductor

CD4018MB/DS



Description

- Ferrite core construction
- Low profile resin-shielded
- LxWxH: 4.2x4.2x1.8mm Max.
- Product weight: 0.105g(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

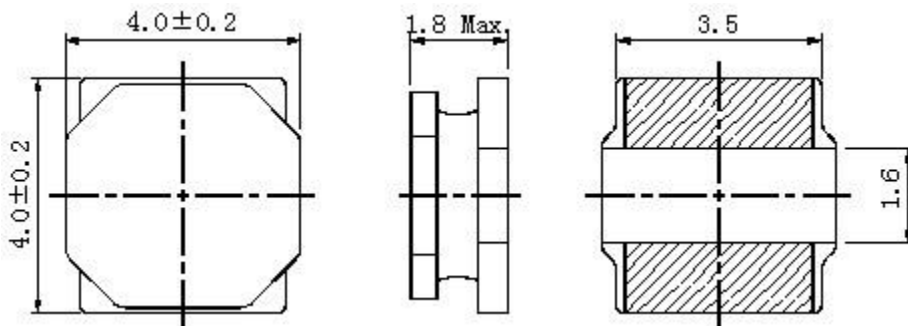
Packaging

- Carrier tape and reel packaging
- 3000pcs per reel

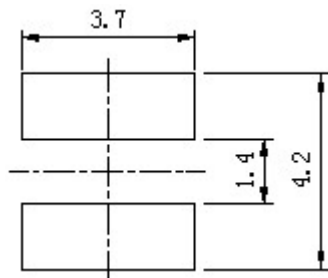
Applications

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

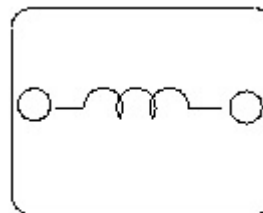
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

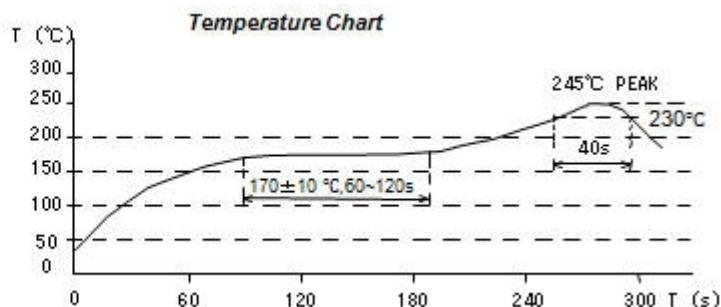
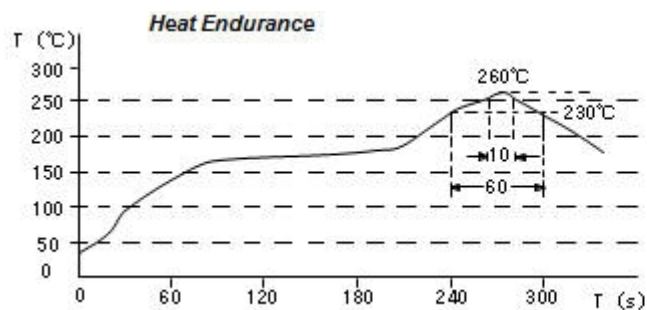
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CD4018MBDS-1R0NC	1.00 \pm 30%	32.00 (27.00)	4.20 (4.90)	(3.20)
CD4018MBDS-1R5NC	1.50 \pm 30%	42.00 (35.00)	3.30 (3.90)	(2.70)
CD4018MBDS-2R2MC	2.20 \pm 20%	61.00 (51.00)	2.90 (3.40)	(2.20)
CD4018MBDS-3R3MC	3.30 \pm 20%	85.00 (71.00)	2.30 (2.70)	(2.00)
CD4018MBDS-4R7MC	4.70 \pm 20%	114 (95.00)	2.00 (2.40)	(1.60)
CD4018MBDS-6R8MC	6.80 \pm 20%	148 (123)	1.70 (2.00)	(1.40)
CD4018MBDS-100MC	10.00 \pm 20%	208 (173)	1.40 (1.60)	(1.20)
CD4018MBDS-150MC	15.00 \pm 20%	296 (247)	1.10 (1.30)	(1.00)
CD4018MBDS-220MC	22.00 \pm 20%	400 (333)	0.90 (1.05)	(0.92)
CD4018MBDS-330MC	33.00 \pm 20%	658 (548)	0.67 (0.79)	(0.70)
CD4018MBDS-470MC	47.00 \pm 20%	845 (704)	0.62 (0.73)	(0.62)

※1 Measuring frequency inductance at 100kHz 1V.

※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 30% lower than its initial value.

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

Solder Reflow Condition



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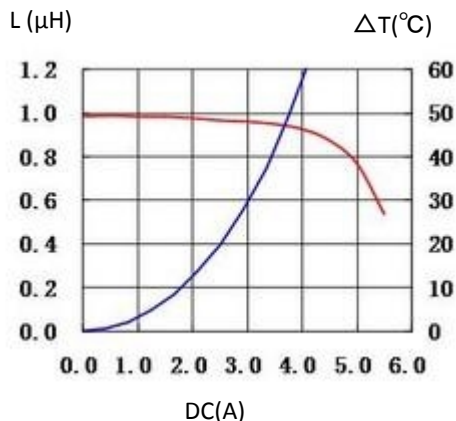
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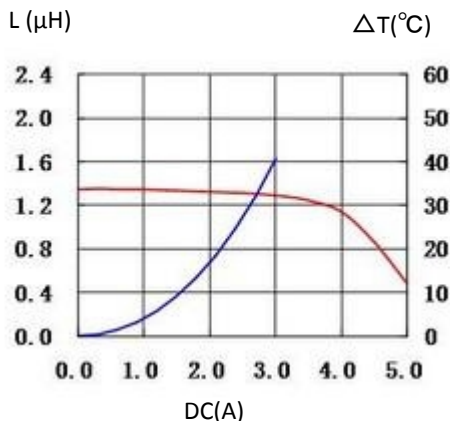
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

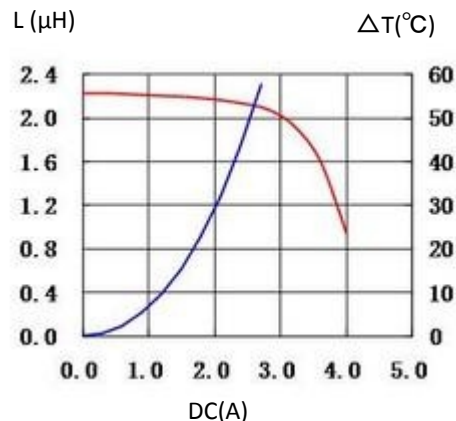
1. CD4018MBDS-1R0NC



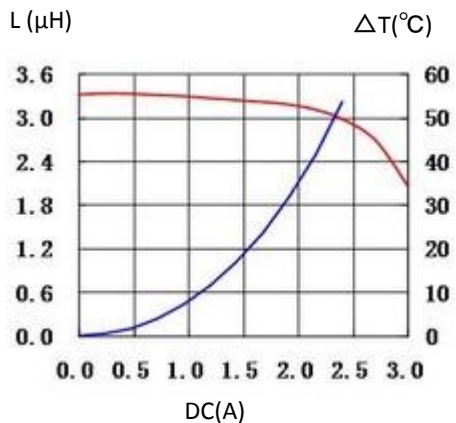
2. CD4018MBDS-1R5NC



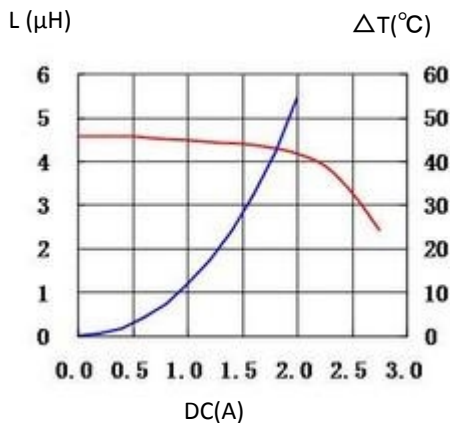
3. CD4018MBDS-2R2MC



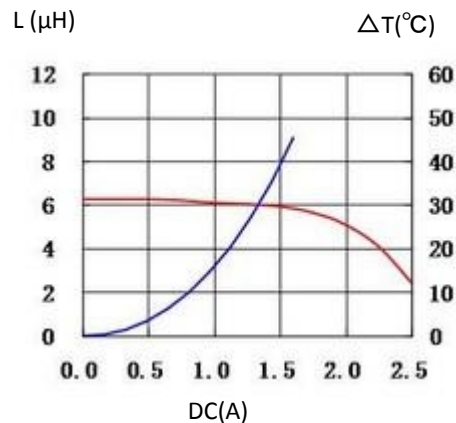
4. CD4018MBDS-3R3MC



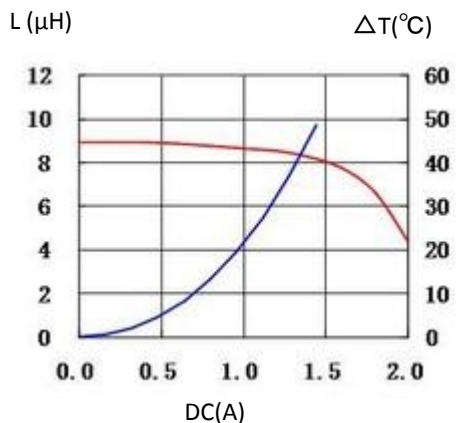
5. CD4018MBDS-4R7MC



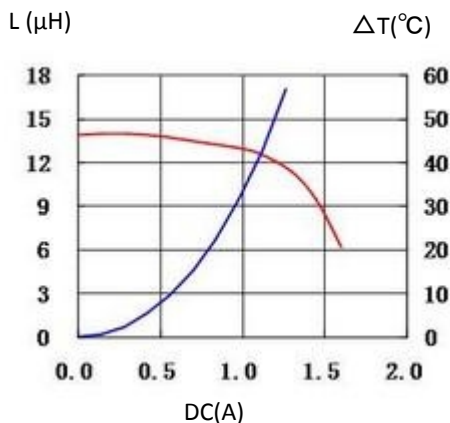
6. CD4018MBDS-6R8MC



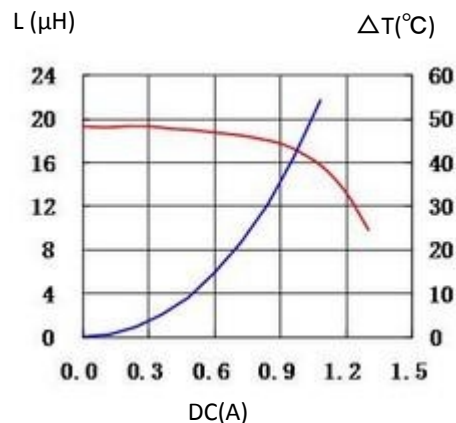
7. CD4018MBDS-100MC



8. CD4018MBDS-150MC



9. CD4018MBDS-220MC



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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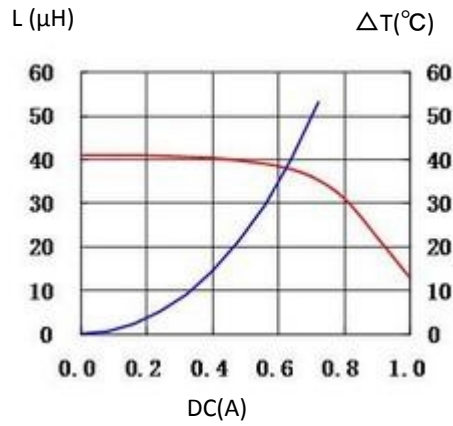
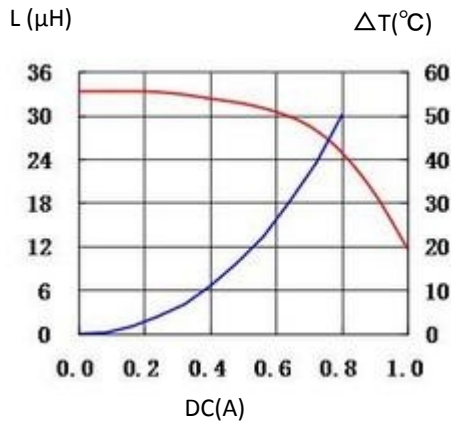
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 Recommended Type

10. CD4018MBDS-330MC

11. CD4018MBDS-470MC



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