

SMD Power Inductor

CD105/T125



Description

- Ferrite durm core construction
- Magnetically unshielded
- LxWxH: 10.4x9.4x5.8mm Max.
- Product weight:1.3 g(Ref.)
- Moisture Sensivity Level: 1
- Qualification to AEC-Q200



Environmental Data

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

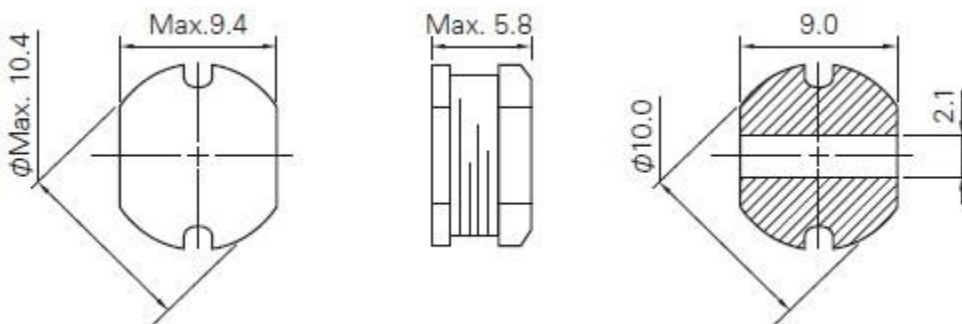
Packaging

- Carrier tape and reel packaging

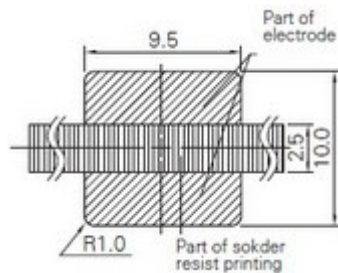
Applications

- High temp and high reliability automotive applications

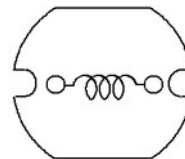
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

Part Number	Inductance [Within] (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
CD105T125NP-100MC	10.00 \pm 20%	60.00 (30.00)	3.20 (4.00)	3.47 (4.00)
CD105T125NP-120MC	12.00 \pm 20%	70.00 (37.00)	2.83 (3.54)	3.37 (3.93)
CD105T125NP-150MC	15.00 \pm 20%	80.00 (43.00)	2.54 (3.17)	3.10 (3.57)
CD105T125NP-180MC	18.00 \pm 20%	90.00 (46.00)	2.40 (3.00)	3.00 (3.50)
CD105T125NP-220MC	22.00 \pm 20%	100 (57.00)	2.13 (2.66)	2.90 (3.30)
CD105T125NP-270MC	27.00 \pm 20%	110 (71.00)	1.96 (2.45)	2.50 (2.84)
CD105T125NP-330MC	33.00 \pm 20%	120 (83.00)	1.76 (2.20)	2.25 (2.58)
CD105T125NP-390MC	39.00 \pm 20%	140 (91.00)	1.62 (2.02)	2.24 (2.55)
CD105T125NP-470KC	47.00 \pm 10%	170 (112)	1.54 (1.92)	1.99 (2.25)
CD105T125NP-560KC	56.00 \pm 10%	190 (127)	1.45 (1.81)	1.80 (2.06)
CD105T125NP-680KC	68.00 \pm 10%	220 (152)	1.32 (1.65)	1.55 (1.80)
CD105T125NP-820KC	82.00 \pm 10%	250 (176)	1.20 (1.50)	1.54 (1.76)
CD105T125NP-101KC	100 \pm 10%	350 (242)	1.05 (1.31)	1.23 (1.42)
CD105T125NP-121KC	120 \pm 10%	400 (274)	0.98 (1.22)	1.20 (1.40)
CD105T125NP-151KC	150 \pm 10%	470 (294)	0.88 (1.10)	1.05 (1.20)
CD105T125NP-181KC	180 \pm 10%	630 (430)	0.79 (0.99)	0.98 (1.12)
CD105T125NP-221KC	220 \pm 10%	730 (500)	0.71 (0.89)	0.87 (1.01)
CD105T125NP-271KC	270 \pm 10%	970 (670)	0.65 (0.81)	0.72 (0.83)
CD105T125NP-331KC	330 \pm 10%	1150 (780)	0.58 (0.72)	0.67 (0.76)
CD105T125NP-391KC	390 \pm 10%	1300 (880)	0.50 (0.63)	0.56 (0.65)
CD105T125NP-471KC	470 \pm 10%	1480 (1000)	0.48 (0.60)	0.53 (0.61)
CD105T125NP-561KC	560 \pm 10%	1900 (1280)	0.45 (0.56)	0.52 (0.59)
CD105T125NP-681KC	680 \pm 10%	2250 (1480)	0.42 (0.52)	0.48 (0.56)
CD105T125NP-821KC	820 \pm 10%	2550 (1690)	0.38 (0.48)	0.47 (0.54)

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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CD105/T125

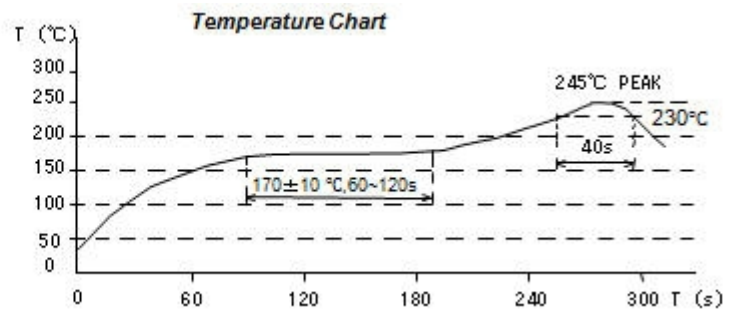
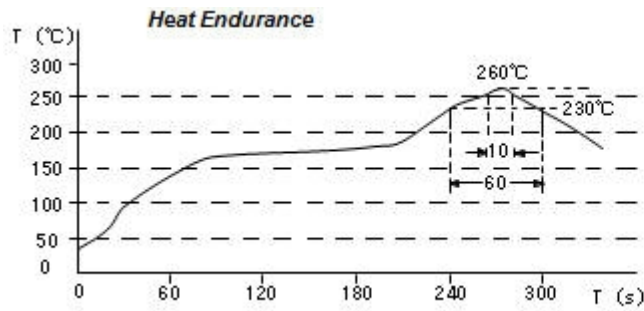


※1 Measuring frequency $10\ \mu\text{H} \sim 82\ \mu\text{H}$ at 2.52 MHz; $100\ \mu\text{H} \sim 820\ \mu\text{H}$ at 1 kHz

※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 10% lower than its initial value. ($T_a=20^\circ\text{C}$)

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

Solder Reflow Condition



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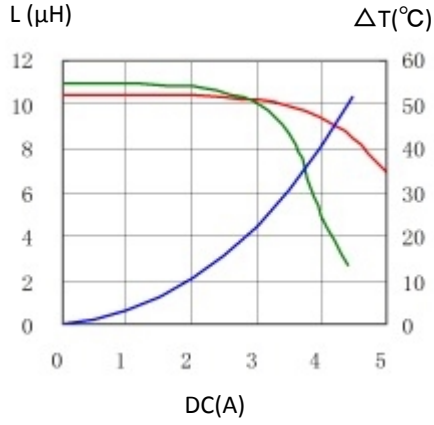
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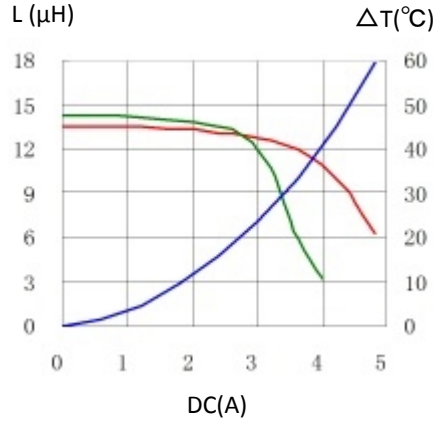
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

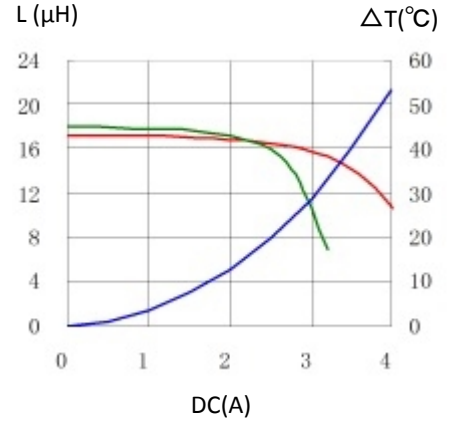
1. CD105T125NP-100MC



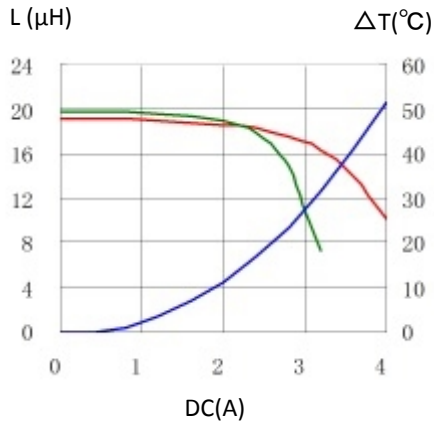
2. CD105T125NP-120MC



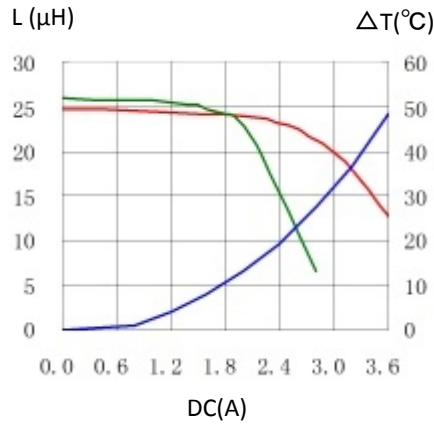
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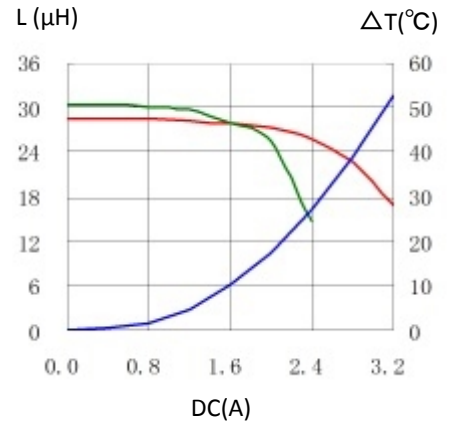
4. CD105T125NP-180MC



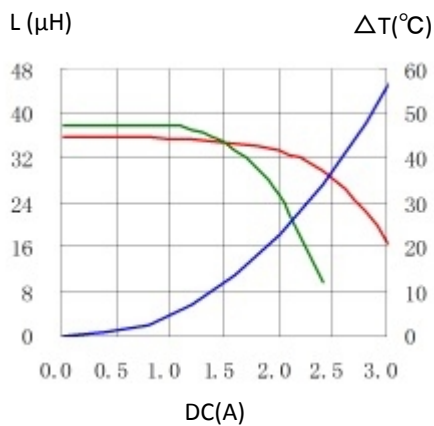
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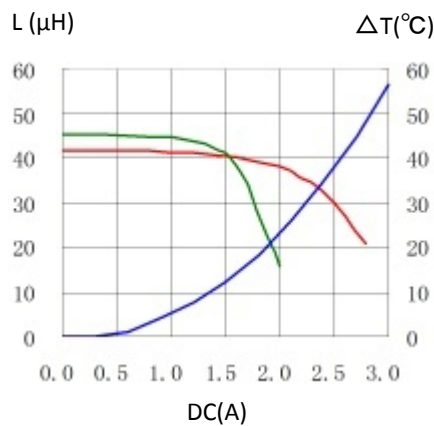
6. CD105T125NP-270MC



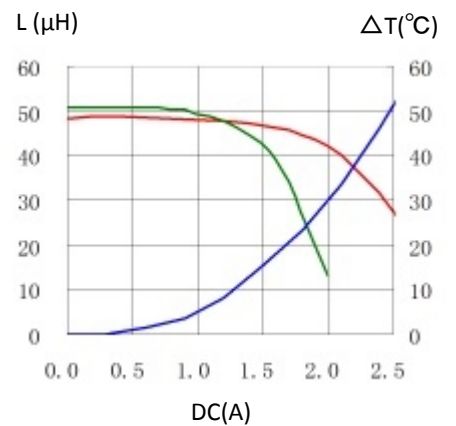
7. CD105T125NP-330MC



8. CD105T125NP-390MC



9. CD105T125NP-470KC



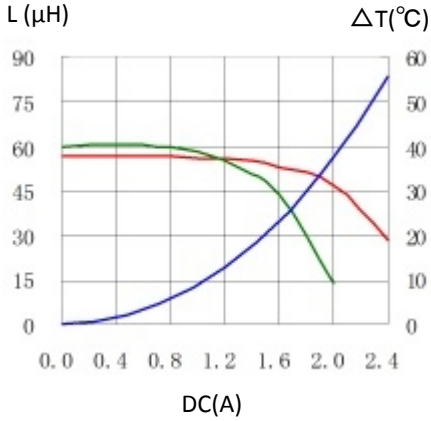
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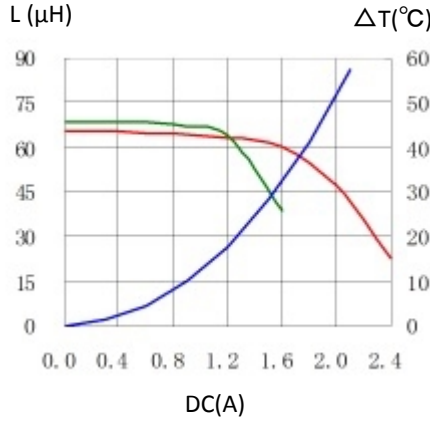
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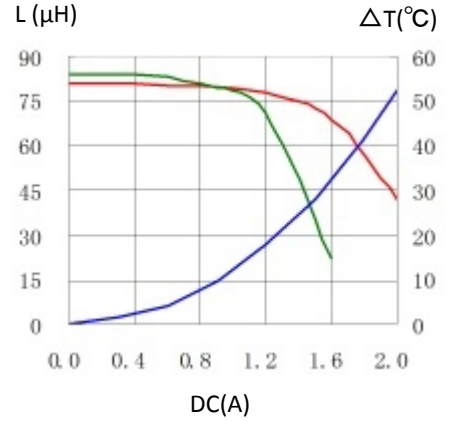
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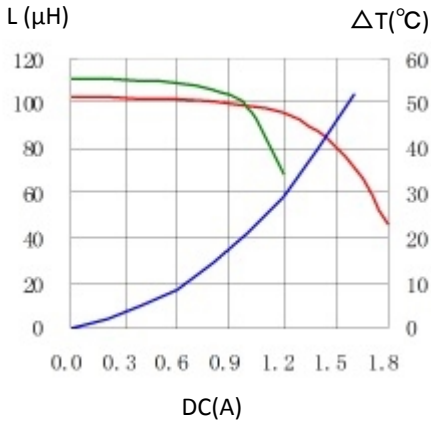
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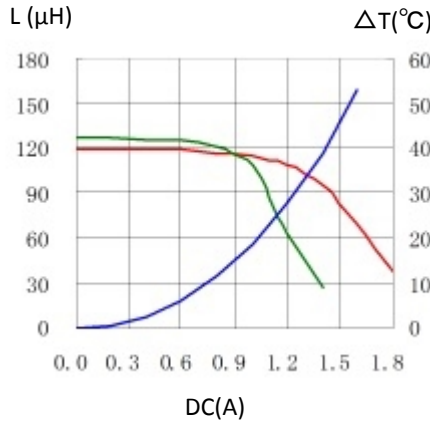
12. CD105T125NP-820KC



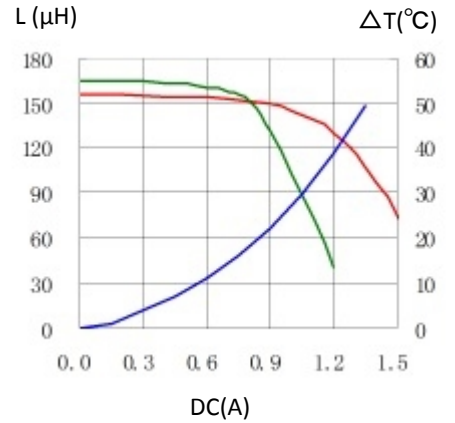
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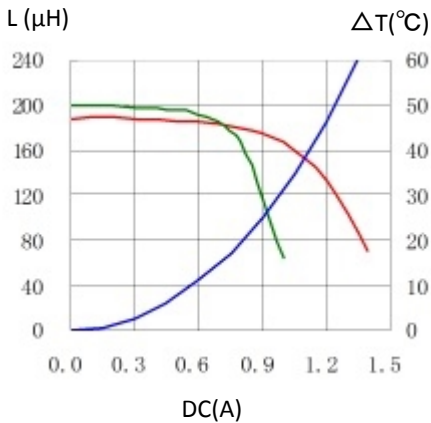
14. CD105T125NP-121KC



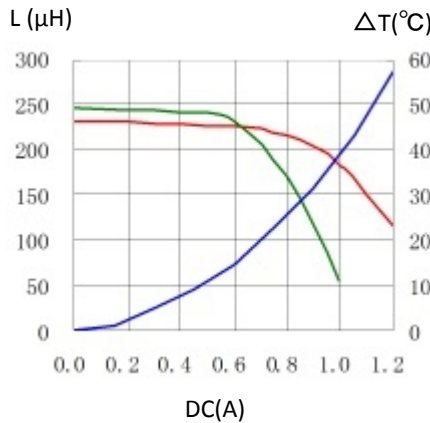
15. CD105T125NP-151KC



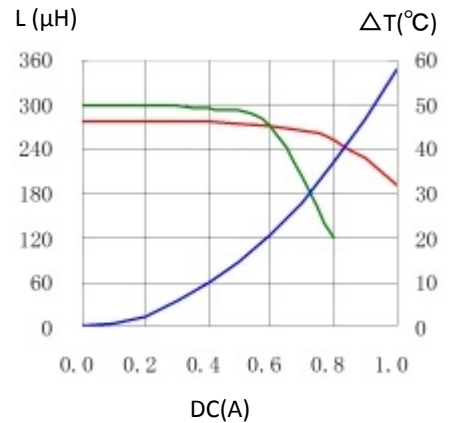
16. CD105T125NP-181KC



17. CD105T125NP-221KC



18. CD105T125NP-271KC

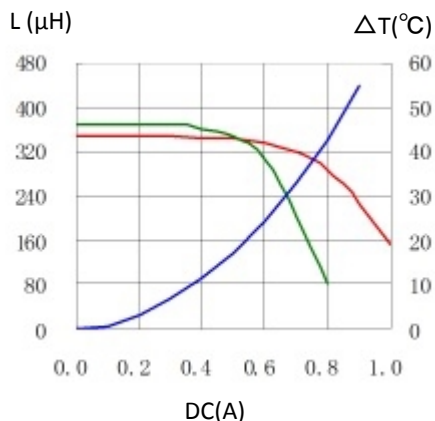


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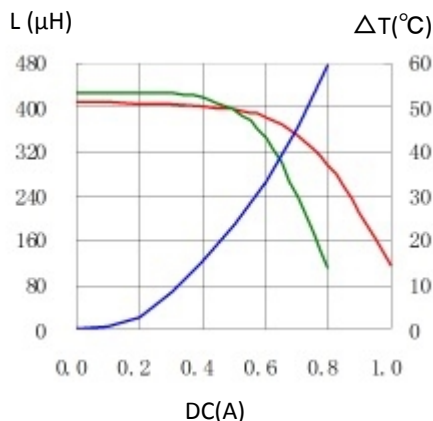
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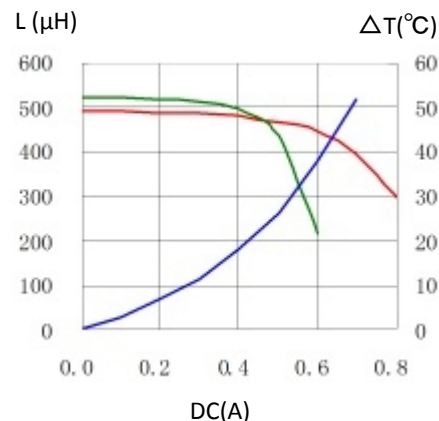
19. CD105T125NP-331KC



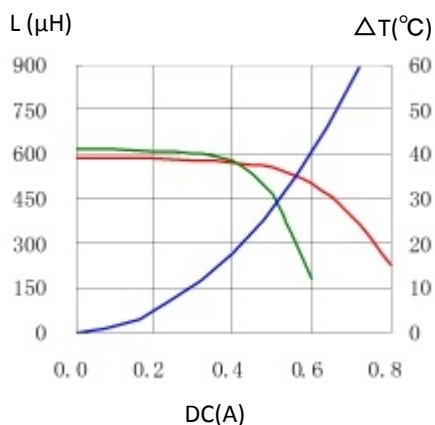
20. CD105T125NP-391KC



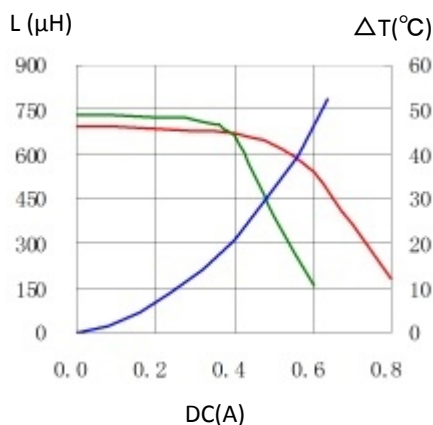
21. CD105T125NP-471KC



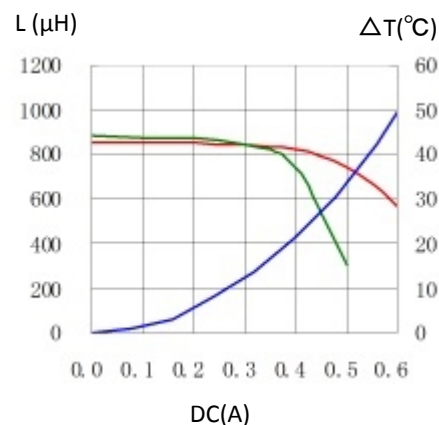
22. CD105T125NP-561KC



23. CD105T125NP-681KC



24. CD105T125NP-821KC



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