

SMD Power Inductor



CDRR73



Description

- Ferrite drum core construction.
- Magnetically shielded.
- LxWxH: 7.2x7.2x3.4 mm Max.
- Product weight:0.6 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.



Environmental Data

- Operating temperature range: -40°C~+125°C(including coil's self temperature rise)
- Storage temperature range: -40°C~+125°C
- Solder reflow temperature: Storage temperature range: 260°C

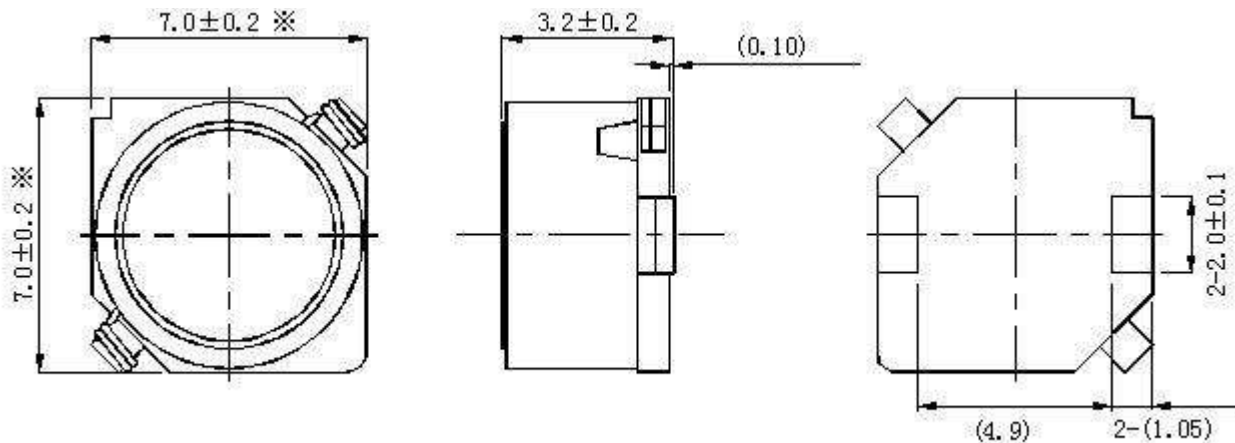
Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 1500pcs per reel

Applications

- For consumer electronics :HDD, personal computer, LCD display, etc.
- For automotive: ABS, SRS airbag, HID/LED, car audio, car navigation, LCD display, etc.

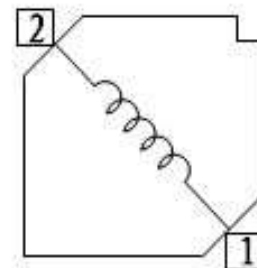
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection





Electrical Characteristics

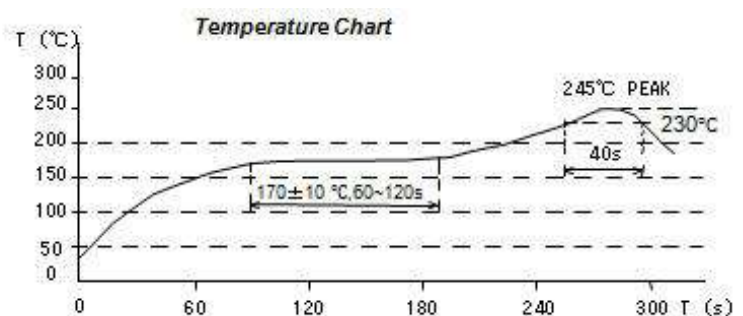
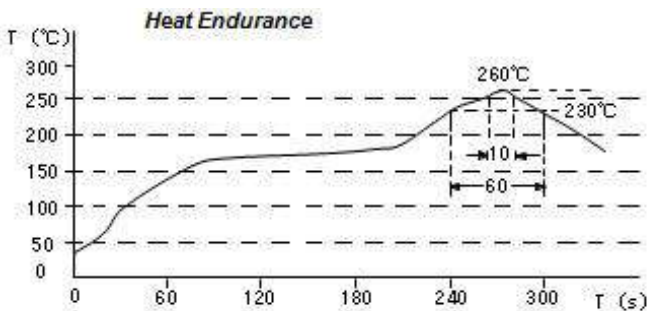
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRR73NP-3R3MC	3.30 \pm 20%	32.00 (25.00)	2.30 (2.90)	(3.45)
CDRR73NP-6R8MC	6.80 \pm 20%	52.00 (41.00)	1.60 (2.10)	(2.00)
CDRR73NP-100MC	10.00 \pm 20%	69.00 (55.00)	1.40 (1.70)	(1.90)
CDRR73NP-150MC	15.00 \pm 20%	97.00 (77.00)	1.10 (1.40)	(1.58)
CDRR73NP-220MC	22.00 \pm 20%	137 (109)	0.96 (1.12)	(1.25)
CDRR73NP-330MC	33.00 \pm 20%	193 (154)	0.75 (0.91)	(0.95)
CDRR73NP-470MC	47.00 \pm 20%	247 (197)	0.67 (0.70)	(0.85)
CDRR73NP-680MC	68.00 \pm 20%	364 (291)	0.54 (0.62)	(0.70)
CDRR73NP-101MC	100 \pm 20%	540 (450)	0.42 (0.52)	(0.60)
CDRR73NP-151MC	150 \pm 20%	753 (602)	0.37 (0.44)	(0.47)
CDRR73NP-221MC	220 \pm 20%	1213 (970)	0.29 (0.35)	(0.37)
CDRR73NP-331MC	330 \pm 20%	1872 (1560)	0.22 (0.28)	(0.28)
CDRR73NP-471MC	470 \pm 20%	2328 (1940)	0.20 (0.24)	(0.26)
CDRR73NP-681MC	680 \pm 20%	3360 (2800)	0.16 (0.18)	(0.22)
CDRR73NP-102MC	1000 \pm 20%	5052 (4210)	0.13 (0.16)	(0.16)

※1. Inductance measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of its nominal value.

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

Solder Reflow Condition



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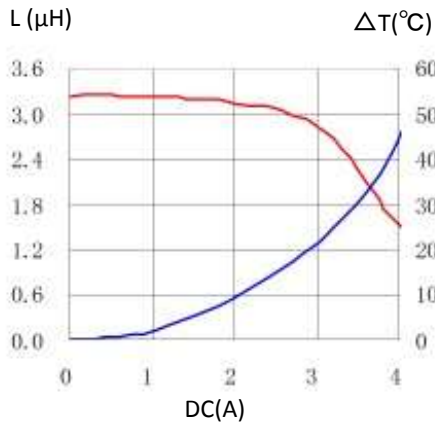
CDRR73



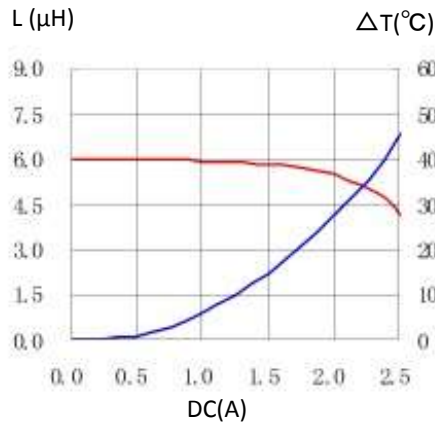
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

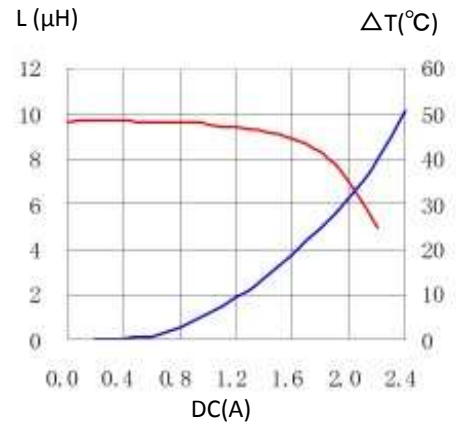
1. CDRR73NP-3R3MC



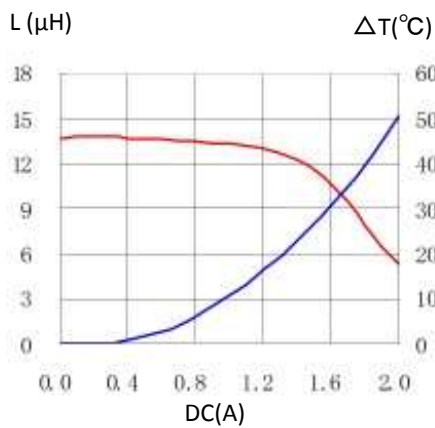
2. CDRR73NP-6R8MC



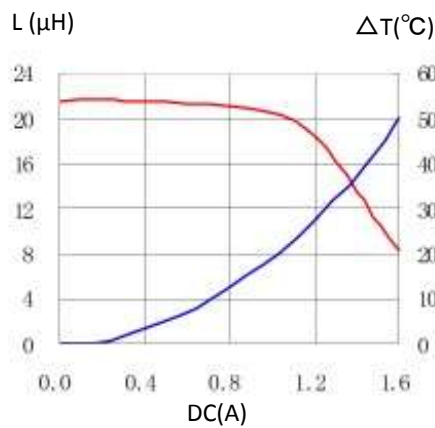
3. CDRR73NP-100MC



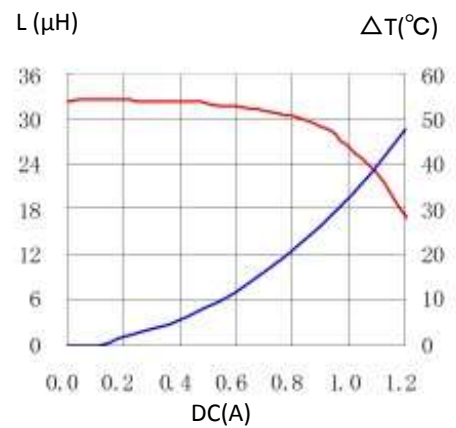
4. CDRR73NP-150MC



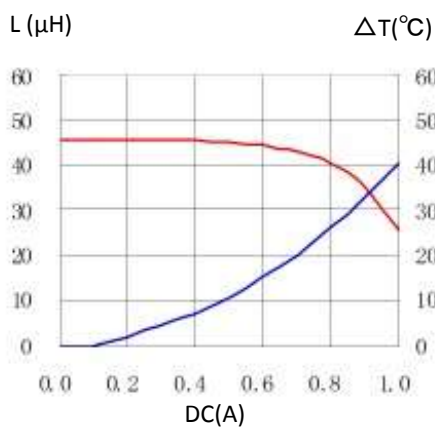
5. CDRR73NP-220MC



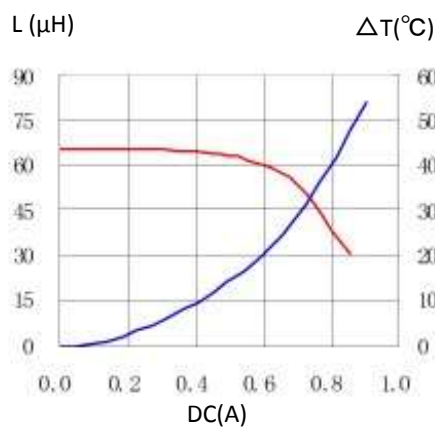
6. CDRR73NP-330MC



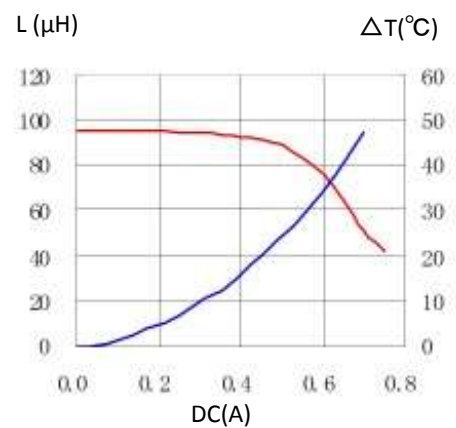
7. CDRR73NP-470MC



8. CDRR73NP-680MC



9. CDRR73NP-101MC

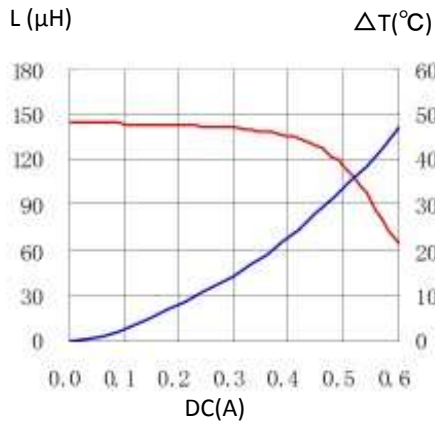


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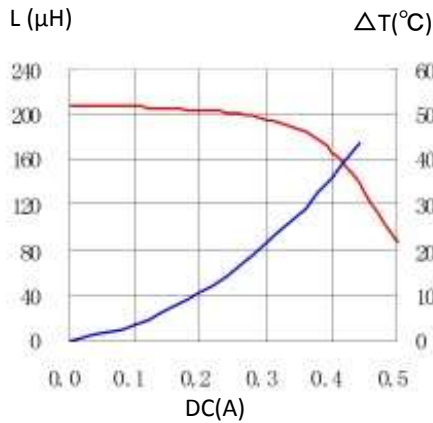
CDRR73



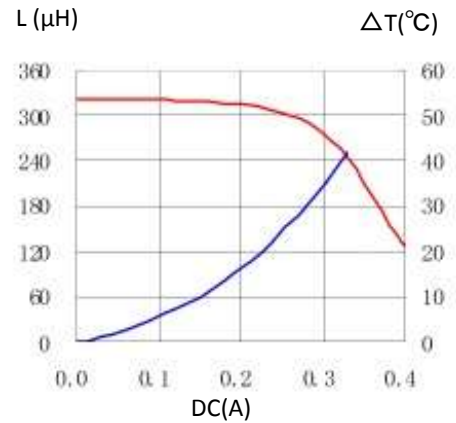
10. CDRR73NP-151MC



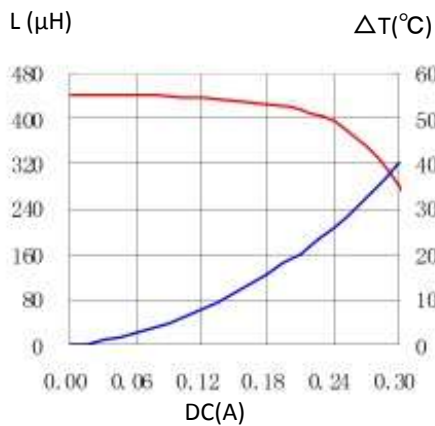
11. CDRR73NP-221MC



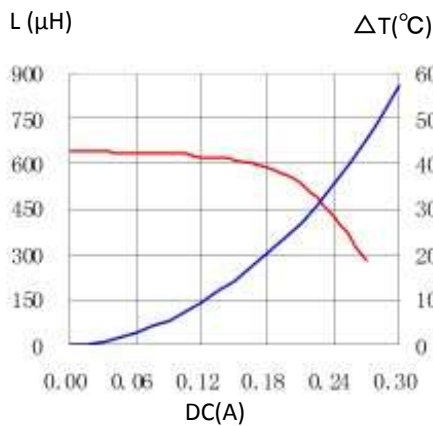
12. CDRR73NP-331MC



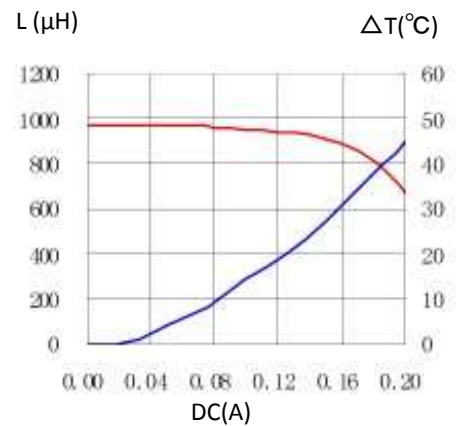
13. CDRR73NP-471MC



14. CDRR73NP-681MC



15. CDRR73NP-102MC



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