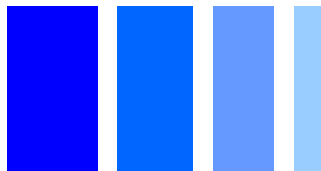


SMD Power Inductor CDRR73



 **sumida**

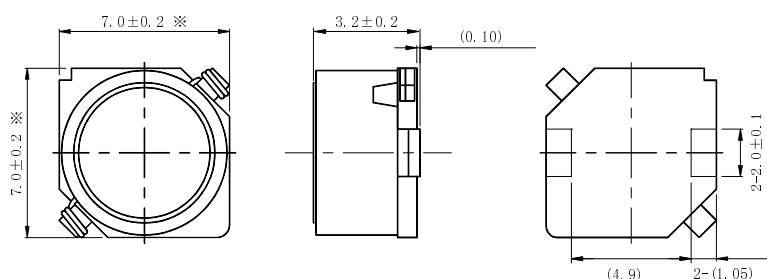
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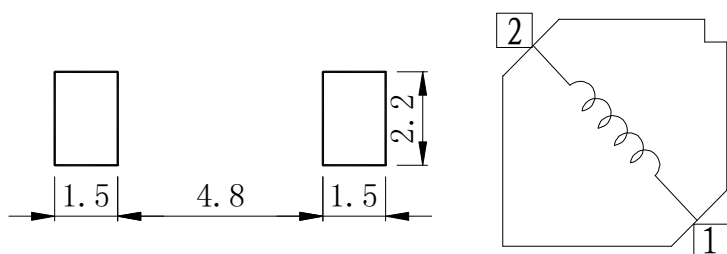
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.2 × 7.2 × 3.4 mm Max.
- Product weight: 0.6 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

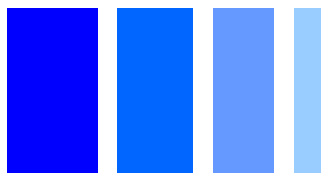
Packaging

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

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Electrical Characteristics

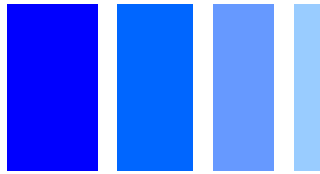
Part No.	Inductance (μH) [within] ※1	D.C.R. ($\text{m}\Omega$) [within] (at 25°C)	Saturation current (A) ※2 (at 20°C)	Temperature rise current (A) ※3
CDRR73NP-3R3MC	$3.3 \pm 20\%$	$23 \pm 20\%$	2.30	3.45
CDRR73NP-4R7MC	$4.7 \pm 20\%$	$30 \pm 20\%$	1.70	2.90
CDRR73NP-6R8MC	$6.8 \pm 20\%$	$41 \pm 20\%$	1.60	2.00
CDRR73NP-100MC	$10 \pm 20\%$	$53 \pm 20\%$	1.40	1.90
CDRR73NP-150MC	$15 \pm 20\%$	$75 \pm 20\%$	1.10	1.58
CDRR73NP-220MC	$22 \pm 20\%$	$110 \pm 20\%$	0.96	1.25
CDRR73NP-330MC	$33 \pm 20\%$	$160 \pm 20\%$	0.75	0.95
CDRR73NP-470MC	$47 \pm 20\%$	$240 \pm 20\%$	0.67	0.85
CDRR73NP-680MC	$68 \pm 20\%$	$310 \pm 20\%$	0.54	0.70
CDRR73NP-101MC	$100 \pm 20\%$	$450 \pm 20\%$	0.45	0.60
CDRR73NP-151MC	$150 \pm 20\%$	$650 \pm 20\%$	0.37	0.47
CDRR73NP-221MC	$220 \pm 20\%$	$1050 \pm 20\%$	0.29	0.37
CDRR73NP-331MC	$330 \pm 20\%$	$1670 \pm 20\%$	0.22	0.28
CDRR73NP-471MC	$470 \pm 20\%$	$2050 \pm 20\%$	0.20	0.26
CDRR73NP-681MC	$680 \pm 20\%$	$3150 \pm 20\%$	0.16	0.22
CDRR73NP-102MC	$1000 \pm 20\%$	$4780 \pm 20\%$	0.13	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 it's nominal value.

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

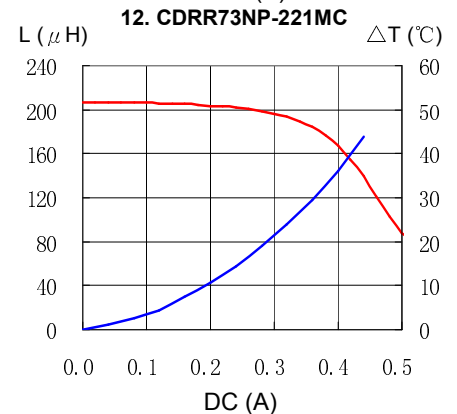
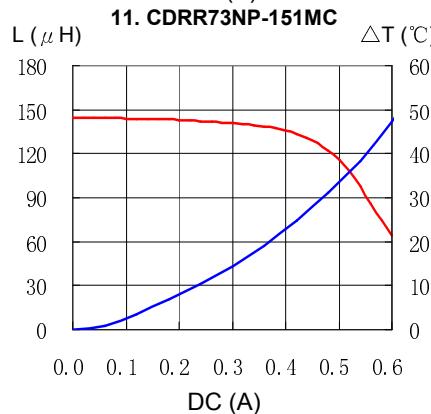
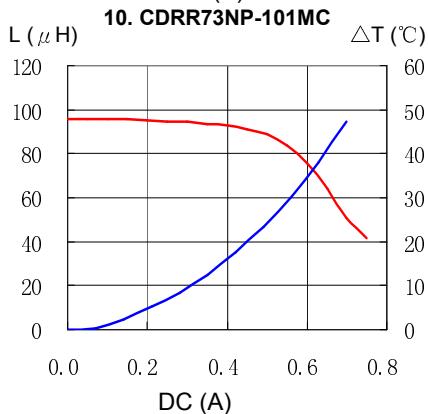
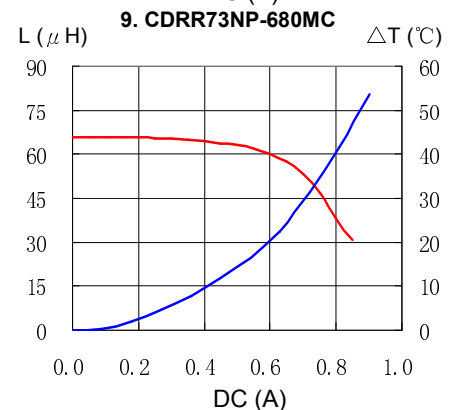
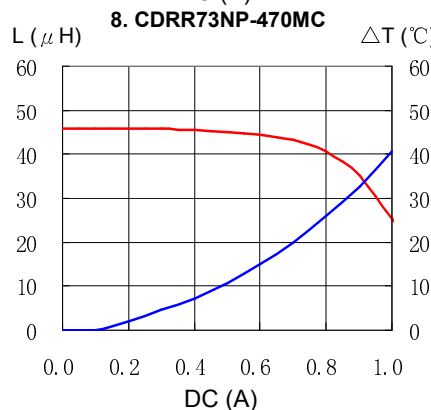
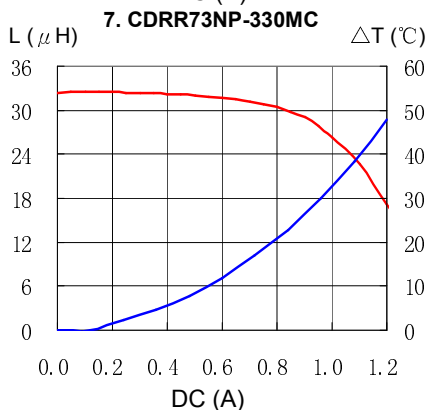
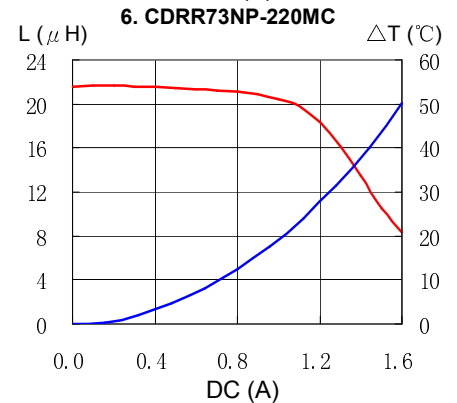
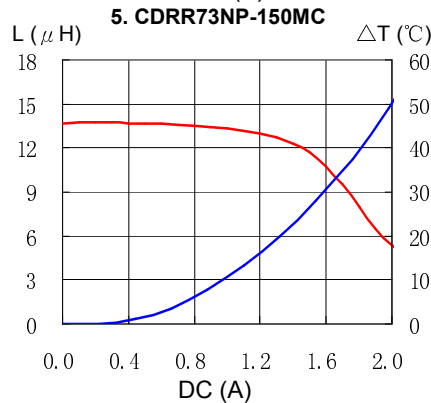
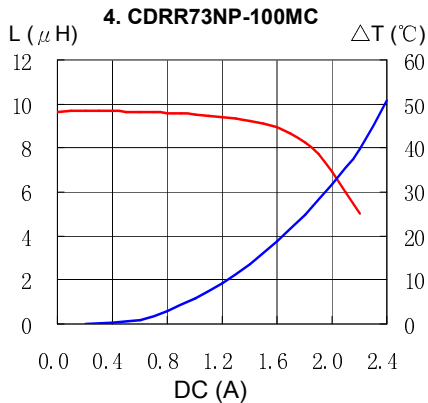
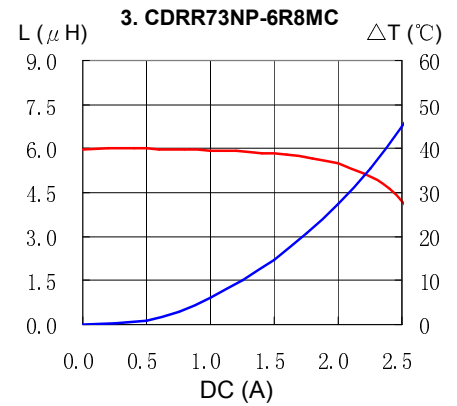
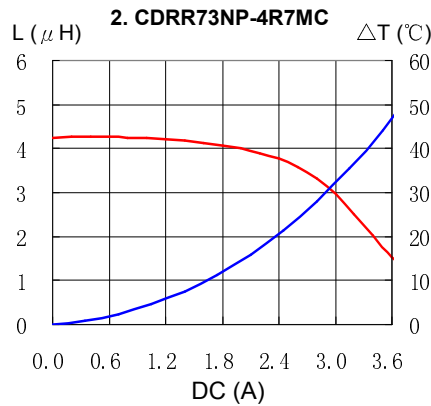
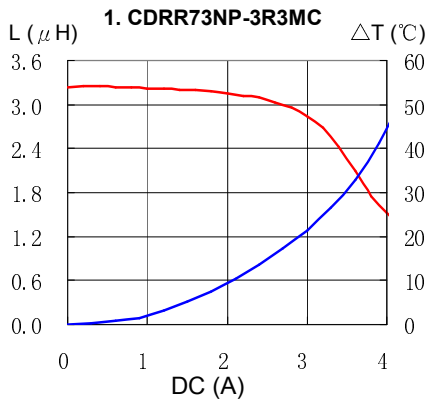
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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



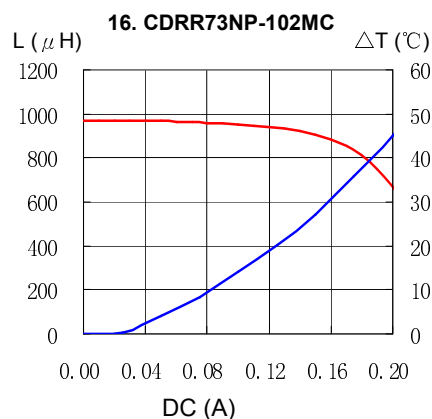
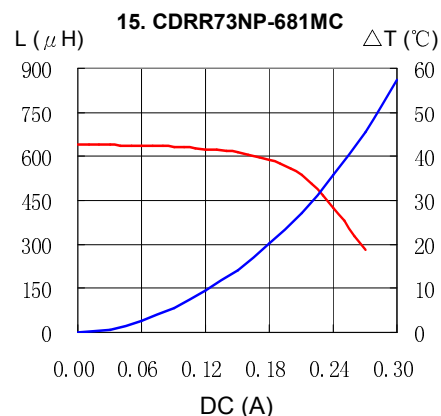
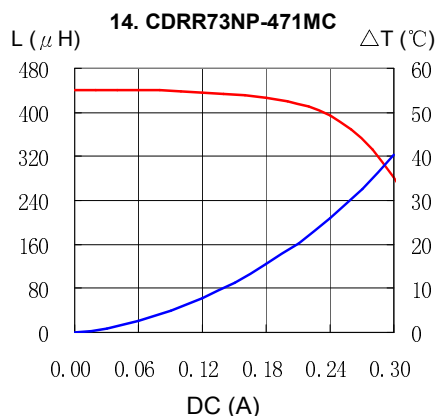
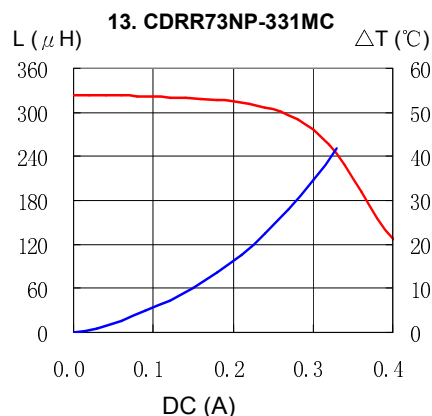
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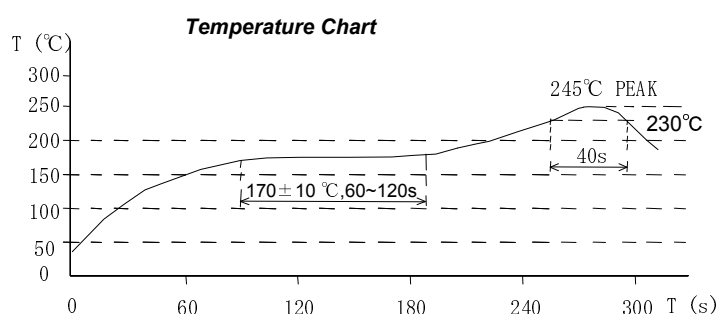
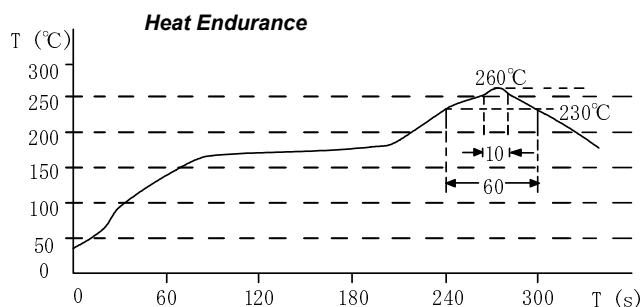
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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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