

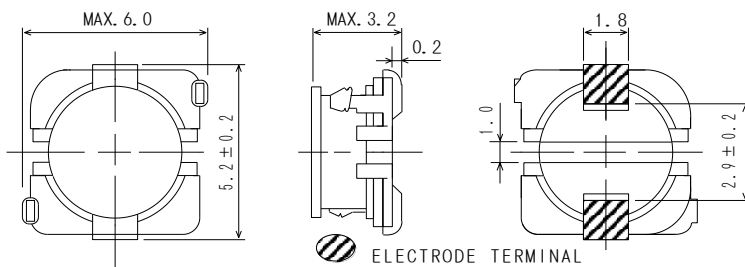
SMD Power Inductor CDH53



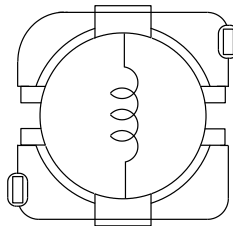
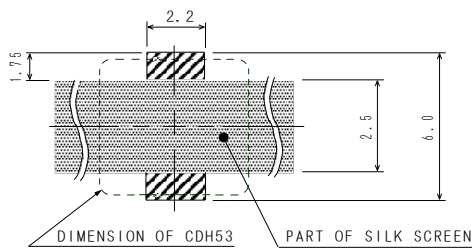
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 6.0 × 5.4 × 3.2 mm Max.
- Product weight: 0.18g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging.
- 13" diameter reel
- 1500pcs per reel

Applications

- Ideally used in PDA, DVD, HDD, DVC, Game machine, Notebook PC, etc as DC-DC converter

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Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (Ω) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDH53NP-2R2MC	2R2	$2.2 \pm 20\%$	66m (51m)	2.03
CDH53NP-3R3MC	3R3	$3.3 \pm 20\%$	88m (68m)	1.88
CDH53NP-4R7MC	4R7	$4.7 \pm 20\%$	96m (74m)	1.68
CDH53NP-100LC	100	$10 \pm 15\%$	0.16(0.13)	1.23
CDH53NP-120LC	120	$12 \pm 15\%$	0.18(0.14)	1.12
CDH53NP-150KC	150	$15 \pm 10\%$	0.25(0.20)	1.00
CDH53NP-180KC	180	$18 \pm 10\%$	0.28(0.21)	0.88
CDH53NP-220KC	220	$22 \pm 10\%$	0.39(0.30)	0.80
CDH53NP-270KC	270	$27 \pm 10\%$	0.42(0.32)	0.72
CDH53NP-330KC	330	$33 \pm 10\%$	0.49(0.38)	0.67
CDH53NP-390KC	390	$39 \pm 10\%$	0.55(0.43)	0.64
CDH53NP-470KC	470	$47 \pm 10\%$	0.77(0.59)	0.53
CDH53NP-560KC	560	$56 \pm 10\%$	0.87(0.67)	0.50
CDH53NP-680JC	680	$68 \pm 5\%$	1.21(0.96)	0.45
CDH53NP-820JC	820	$82 \pm 5\%$	1.34(1.07)	0.39
CDH53NP-101JC	101	$100 \pm 5\%$	1.57(1.25)	0.37
CDH53NP-121JC	121	$120 \pm 5\%$	1.80(1.44)	0.34
CDH53NP-151JC	151	$150 \pm 5\%$	2.40(1.92)	0.31
CDH53NP-181JC	181	$180 \pm 5\%$	2.66(2.13)	0.30
CDH53NP-221JC	221	$220 \pm 5\%$	3.73(2.99)	0.26

※1. Inductance measuring frequency: $2.2\mu\text{H} \sim 4.7\mu\text{H}$ at 7.96 MHz;
 $10\mu\text{H} \sim 220\mu\text{H}$ at 1kHz.

※2. Rated current: The DC current at which the inductance decreases to 90% of its initial value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

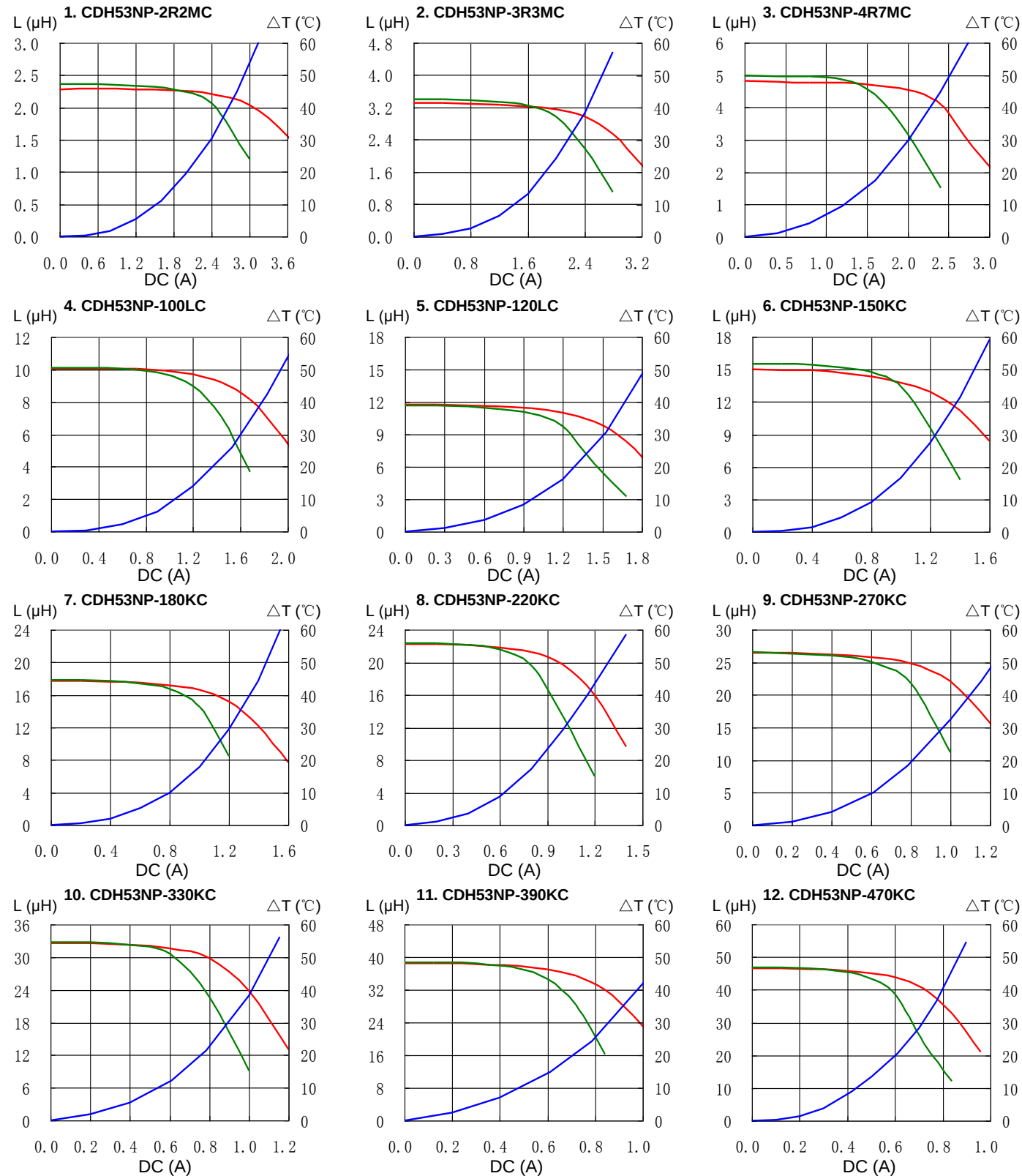
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

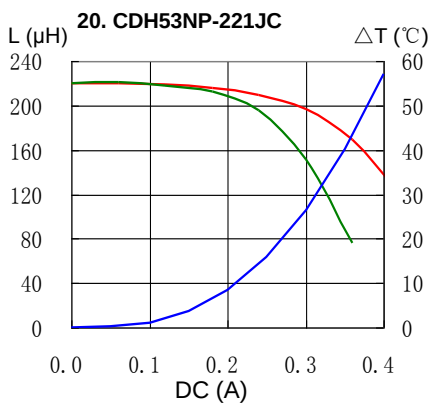
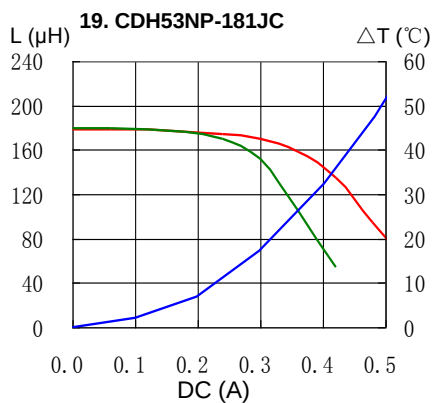
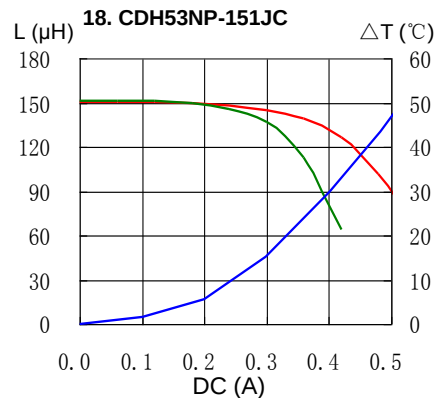
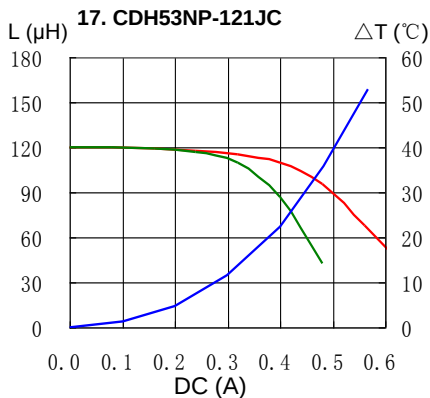
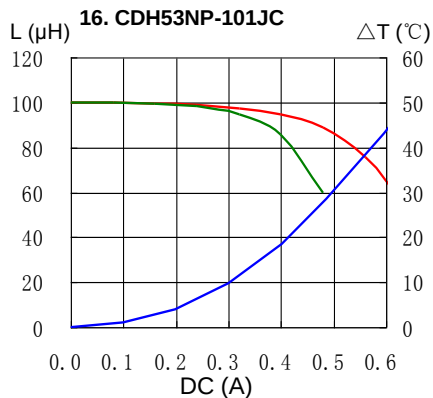
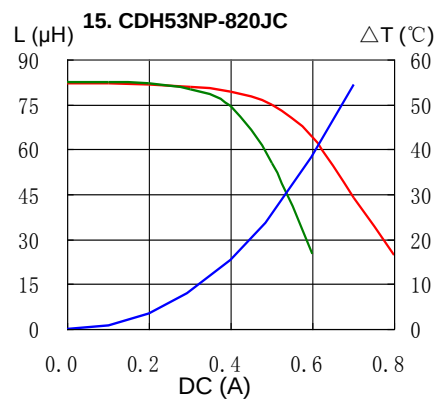
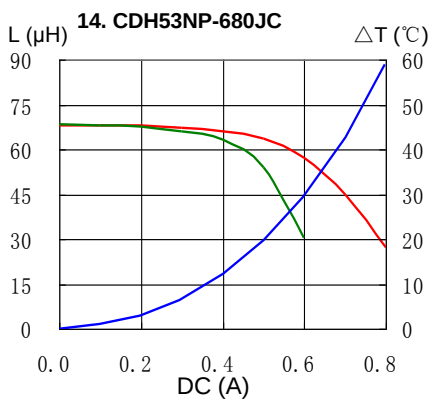
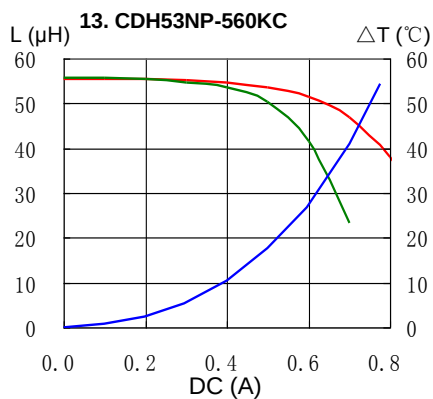


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Saturation Current & Temperature Rise Graph

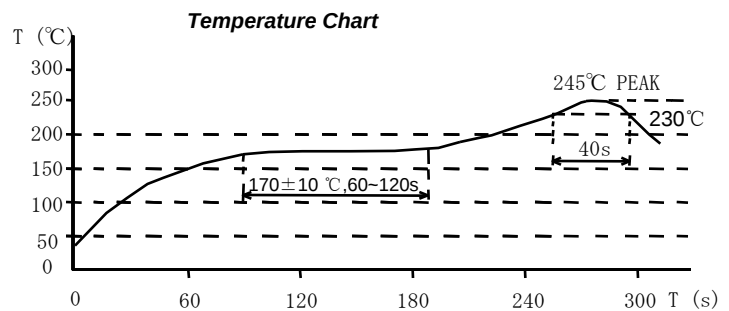
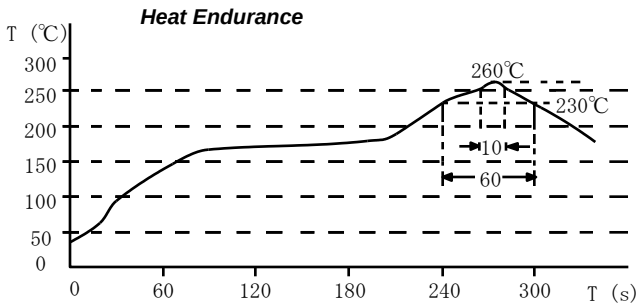
— L (20°C) — L (100°C) — ΔT



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Solder Reflow Condition



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