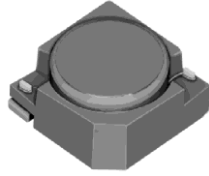


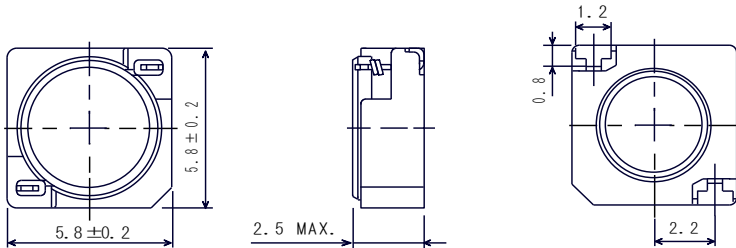
SMD Power Inductor CDC5D23B



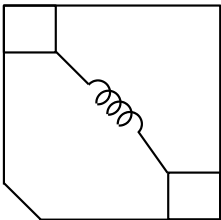
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 6.0 × 6.0 × 2.5 mm Max.
- Product weight: 215mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



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
- 13.0" diameter reel
- 2000pcs per reel

Applications

- Ideally used in EL drive as EL lamp inverter inductors.



Electrical Characteristics

| Part Name | Stamp | Inductance (μH) [Within] ※1 | D.C.R.(m Ω) Max. (Typ.) (at20 $^{\circ}\text{C}$) | Rated current (A) ※2 |
|------------------|-------|--|--|-------------------------|
| CDC5D23BNP-2R2MC | 2R2 | 2.2 $\mu\text{H} \pm 20\%$ | 39 (30) | 2.16 |
| CDC5D23BNP-2R7MC | 2R7 | 2.7 $\mu\text{H} \pm 20\%$ | 44 (34) | 2.08 |
| CDC5D23BNP-3R3MC | 3R3 | 3.3 $\mu\text{H} \pm 20\%$ | 49 (38) | 1.90 |
| CDC5D23BNP-3R9MC | 3R9 | 3.9 $\mu\text{H} \pm 20\%$ | 56 (43) | 1.84 |
| CDC5D23BNP-4R7MC | 4R7 | 4.7 $\mu\text{H} \pm 20\%$ | 62 (48) | 1.60 |
| CDC5D23BNP-5R6MC | 5R6 | 5.6 $\mu\text{H} \pm 20\%$ | 78 (60) | 1.44 |
| CDC5D23BNP-6R8MC | 6R8 | 6.8 $\mu\text{H} \pm 20\%$ | 91 (70) | 1.36 |
| CDC5D23BNP-8R2MC | 8R2 | 8.2 $\mu\text{H} \pm 20\%$ | 103(87) | 1.12 |
| CDC5D23BNP-100LC | 100 | 10 $\mu\text{H} \pm 15\%$ | 133(102) | 1.04 |
| CDC5D23BNP-120LC | 120 | 12 $\mu\text{H} \pm 15\%$ | 148(114) | 0.96 |
| CDC5D23BNP-150KC | 150 | 15 $\mu\text{H} \pm 10\%$ | 166(128) | 0.88 |
| CDC5D23BNP-180KC | 180 | 18 $\mu\text{H} \pm 10\%$ | 213(164) | 0.77 |
| CDC5D23BNP-220KC | 220 | 22 $\mu\text{H} \pm 10\%$ | 248(191) | 0.73 |
| CDC5D23BNP-270KC | 270 | 27 $\mu\text{H} \pm 10\%$ | 328(252) | 0.64 |
| CDC5D23BNP-330KC | 330 | 33 $\mu\text{H} \pm 10\%$ | 378(291) | 0.58 |
| CDC5D23BNP-390KC | 390 | 39 $\mu\text{H} \pm 10\%$ | 438(337) | 0.54 |
| CDC5D23BNP-470KC | 470 | 47 $\mu\text{H} \pm 10\%$ | 546(420) | 0.49 |
| CDC5D23BNP-560KC | 560 | 56 $\mu\text{H} \pm 10\%$ | 621(478) | 0.45 |
| CDC5D23BNP-680KC | 680 | 68 $\mu\text{H} \pm 10\%$ | 715(550) | 0.41 |
| CDC5D23BNP-820KC | 820 | 82 $\mu\text{H} \pm 10\%$ | 1000(772) | 0.35 |
| CDC5D23BNP-101KC | 101 | 100 $\mu\text{H} \pm 10\%$ | 1070(820) | 0.33 |
| CDC5D23BNP-121KC | 121 | 120 $\mu\text{H} \pm 10\%$ | 1250(960) | 0.32 |
| CDC5D23BNP-151KC | 151 | 150 $\mu\text{H} \pm 10\%$ | 1660(1280) | 0.26 |
| CDC5D23BNP-181KC | 181 | 180 $\mu\text{H} \pm 10\%$ | 1900(1460) | 0.23 |
| CDC5D23BNP-221KC | 221 | 220 $\mu\text{H} \pm 10\%$ | 2440(1880) | 0.21 |
| CDC5D23BNP-271KC | 271 | 270 $\mu\text{H} \pm 10\%$ | 2730(2100) | 0.19 |

※1. Inductance measuring condition: at 100 kHz.

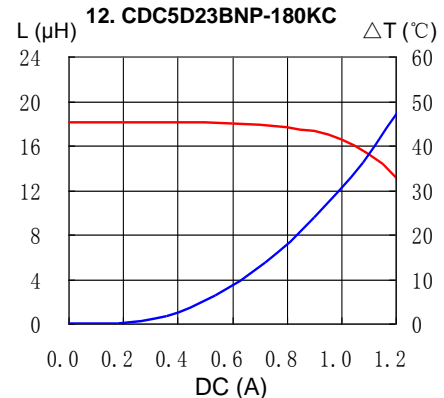
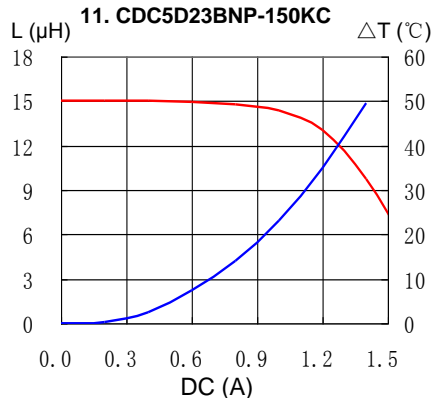
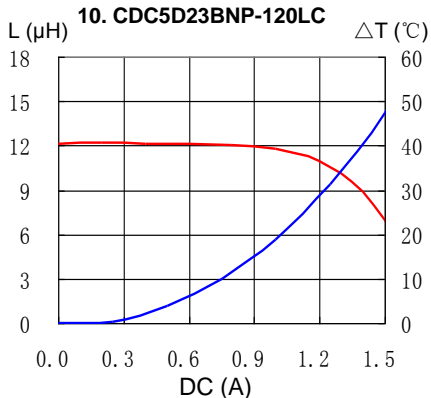
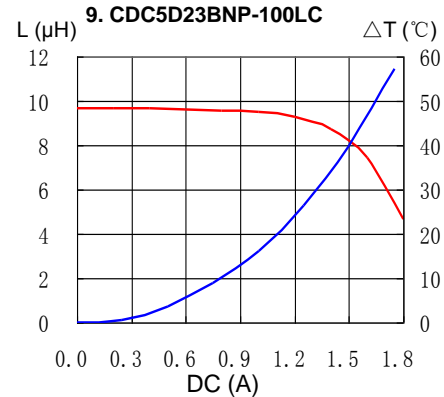
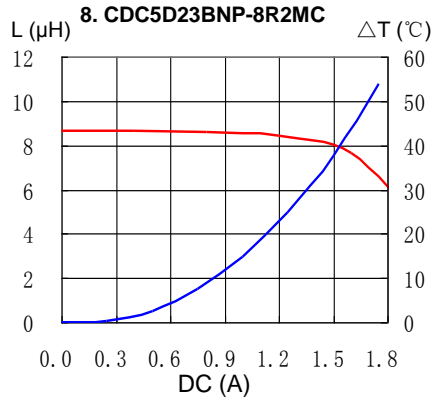
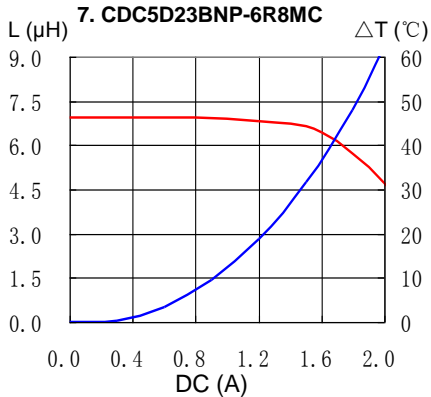
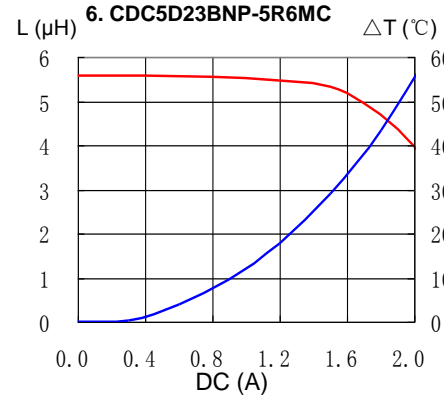
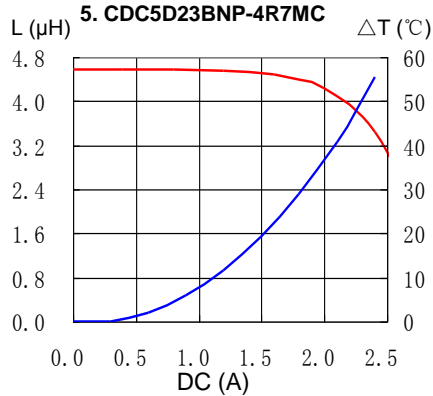
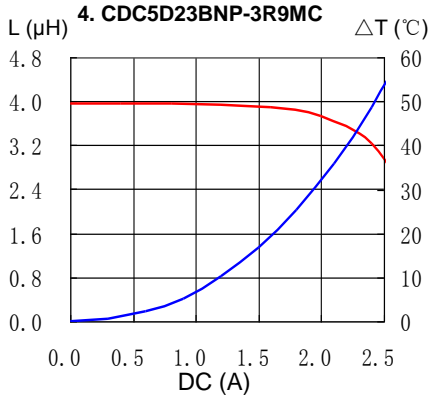
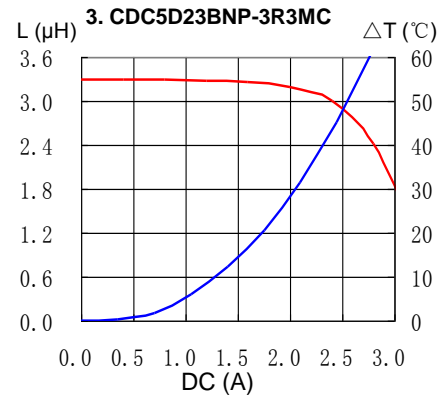
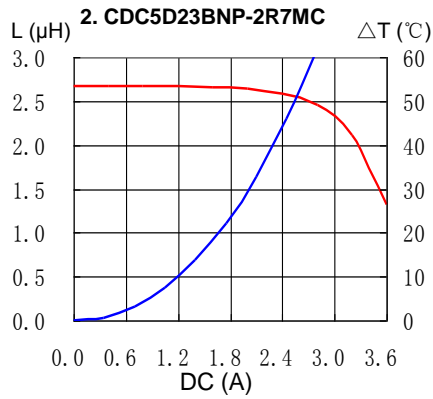
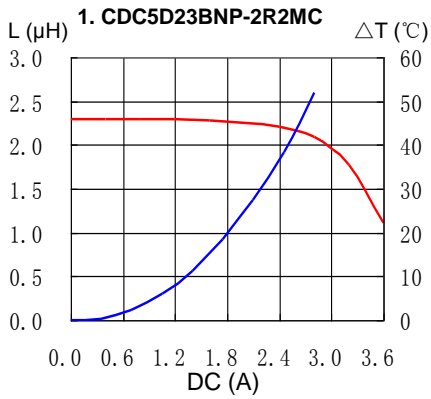
※2. Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower ($T_a = 20^{\circ}\text{C}$)

SMD Power Inductor CDC5D23B



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

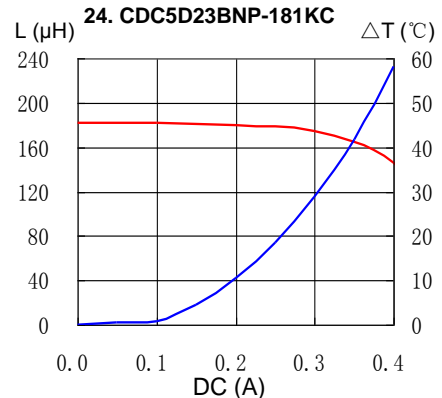
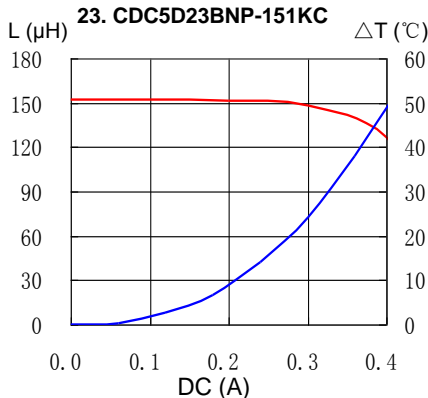
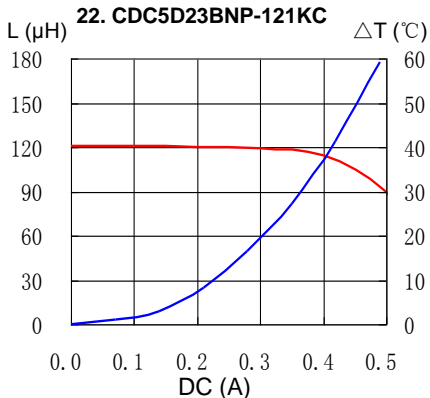
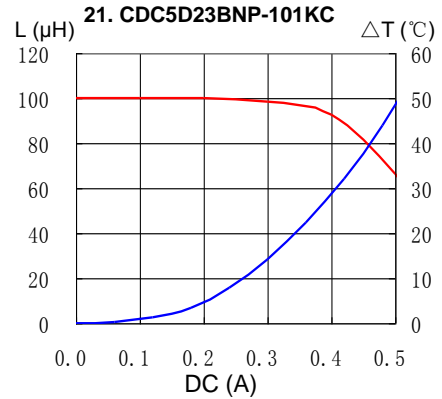
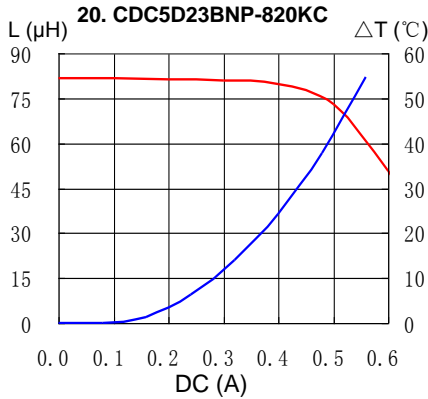
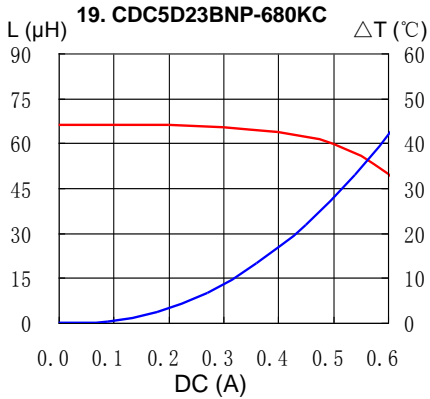
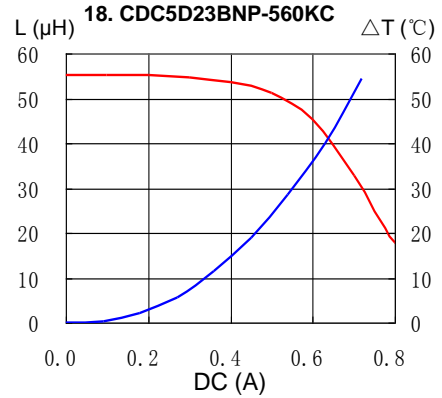
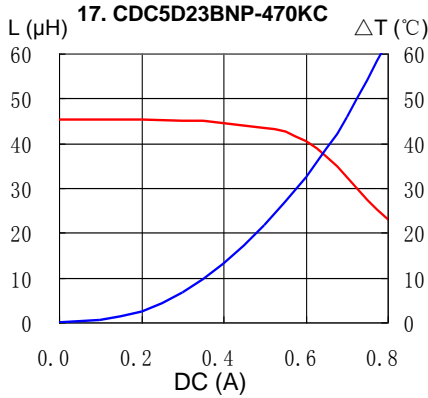
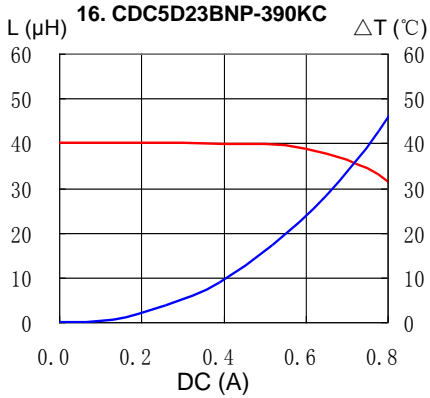
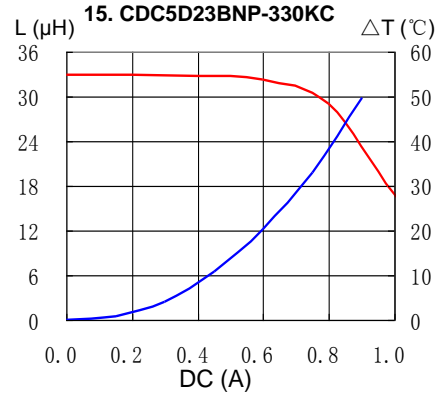
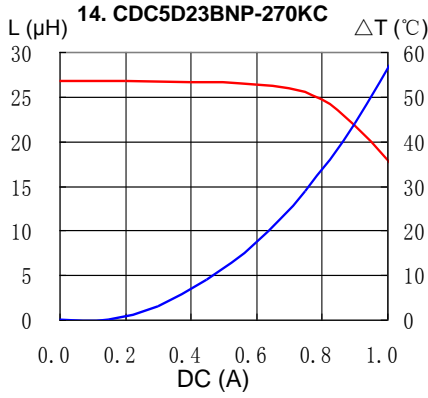
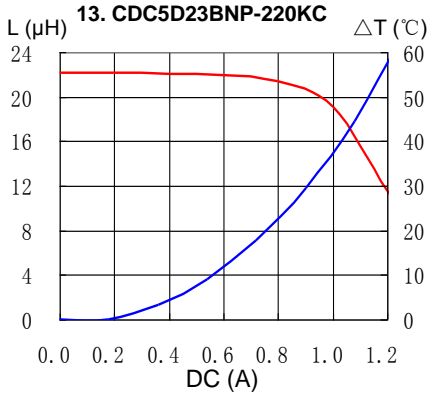


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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

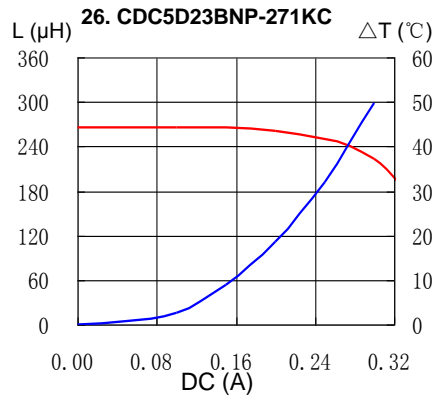
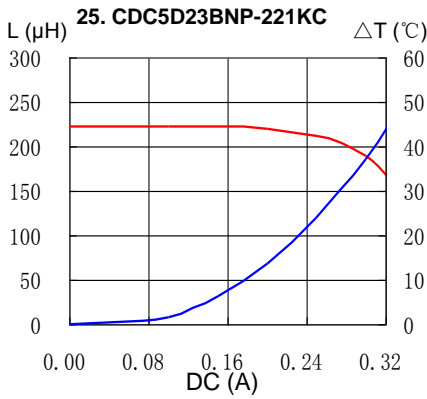


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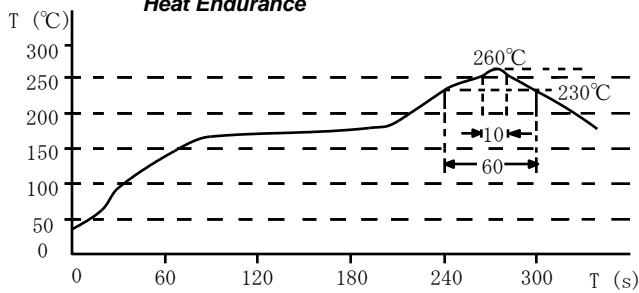
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

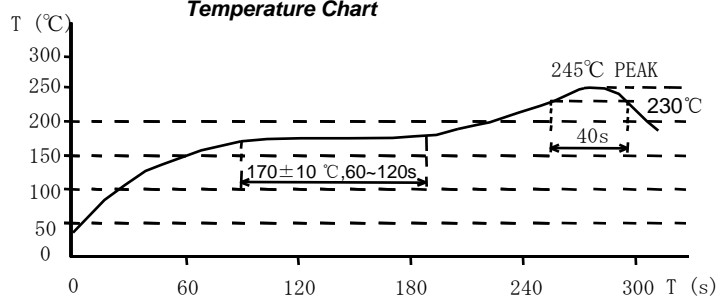


Solder Reflow Condition

Heat Endurance



Temperature Chart



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