

SMD Power Inductor CR75



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.1 × 7.3 × 5.5 mm Max.
- Product weight: 0.73g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

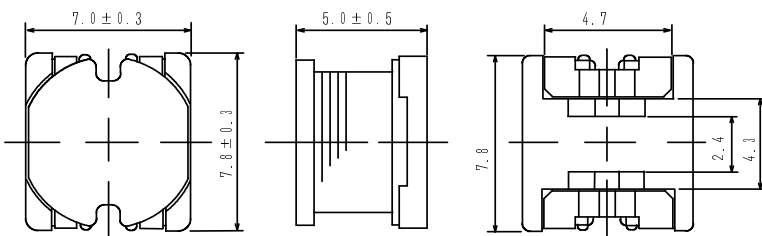
Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 1000pcs per reel

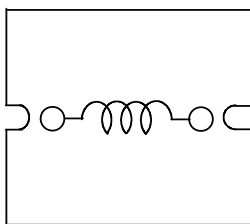
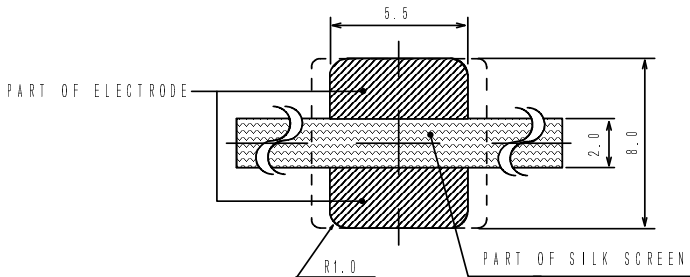
Applications

- Ideally used in A/V equipment, LCD TV, DSC/DVC, Game Machine, DVC, HDD, Notebook PC, etc as DC-DC converter inductors.

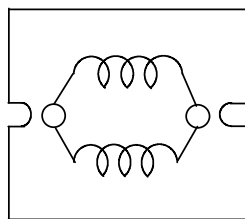
Dimension - [mm]



Land pattern and Schematics - [mm]



10 μH ~ 470 μH



1.2 μH ~ 8.2 μH

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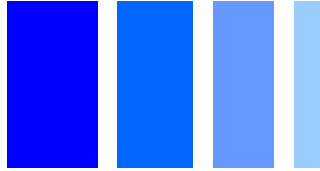
Electrical Characteristics

| Part Name | Stamp | Inductance (μ H) [within] ※ 1 | D.C.R. (m Ω) [Max.] (at 20°C) | Rated Current (A)※2 |
|--------------|-------|--|---|------------------------|
| CR75NP-1R2MC | 1R2M | 1.2 \pm 20% | 15.6m | 6.0 |
| CR75NP-1R5MC | 1R5M | 1.5 \pm 20% | 17.0m | 5.5 |
| CR75NP-2R2MC | 2R2M | 2.2 \pm 20% | 19.5m | 4.5 |
| CR75NP-2R7MC | 2R7M | 2.7 \pm 20% | 22.1m | 4.2 |
| CR75NP-3R3MC | 3R3M | 3.3 \pm 20% | 24.7m | 3.7 |
| CR75NP-3R9MC | 3R9M | 3.9 \pm 20% | 27.3m | 3.5 |
| CR75NP-4R7MC | 4R7M | 4.7 \pm 20% | 30.0m | 3.1 |
| CR75NP-5R6MC | 5R6M | 5.6 \pm 20% | 32.5m | 2.8 |
| CR75NP-6R8MC | 6R8M | 6.8 \pm 20% | 36.4m | 2.7 |
| CR75NP-8R2MC | 8R2M | 8.2 \pm 20% | 41.6m | 2.5 |
| CR75NP-100KC | 100K | 10 \pm 10% | 0.07 | 2.3 |
| CR75NP-120KC | 120K | 12 \pm 10% | 0.08 | 2.0 |
| CR75NP-150KC | 150K | 15 \pm 10% | 0.09 | 1.8 |
| CR75NP-180KC | 180K | 18 \pm 10% | 0.10 | 1.6 |
| CR75NP-220KC | 220K | 22 \pm 10% | 0.11 | 1.5 |
| CR75NP-270KC | 270K | 27 \pm 10% | 0.12 | 1.3 |
| CR75NP-330KC | 330K | 33 \pm 10% | 0.13 | 1.2 |
| CR75NP-390KC | 390K | 39 \pm 10% | 0.16 | 1.1 |
| CR75NP-470KC | 470K | 47 \pm 10% | 0.18 | 1.1 |
| CR75NP-560KC | 560K | 56 \pm 10% | 0.24 | 0.94 |
| CR75NP-680KC | 680K | 68 \pm 10% | 0.28 | 0.85 |
| CR75NP-820KC | 820K | 82 \pm 10% | 0.37 | 0.78 |
| CR75NP-101KC | 101K | 100 \pm 10% | 0.43 | 0.72 |
| CR75NP-121KC | 121K | 120 \pm 10% | 0.47 | 0.66 |
| CR75NP-151KC | 151K | 150 \pm 10% | 0.64 | 0.58 |
| CR75NP-181KC | 181K | 180 \pm 10% | 0.71 | 0.51 |
| CR75NP-221KC | 221K | 220 \pm 10% | 0.96 | 0.49 |
| CR75NP-271KC | 271K | 270 \pm 10% | 1.11 | 0.42 |
| CR75NP-331KC | 331K | 330 \pm 10% | 1.26 | 0.40 |
| CR75NP-391KC | 391K | 390 \pm 10% | 1.77 | 0.36 |
| CR75NP-471KC | 471K | 470 \pm 10% | 1.96 | 0.34 |

※ 1 .Inductance Measuring frequency: 1.2 μ H \sim 8.2 μ H ; at 7.96 MHz
 10 μ H \sim 82 μ H ; at 2.52 MHz
 100 μ H \sim 470 μ H ; at 1 kHz

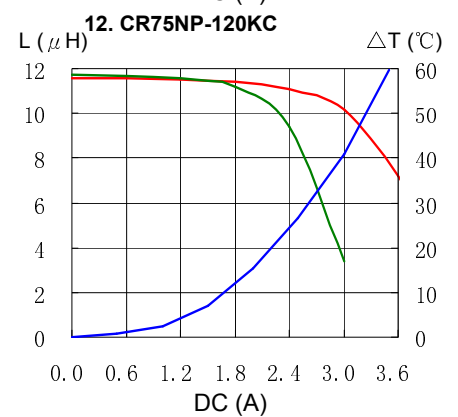
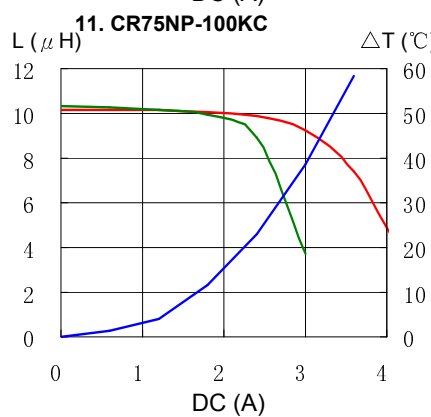
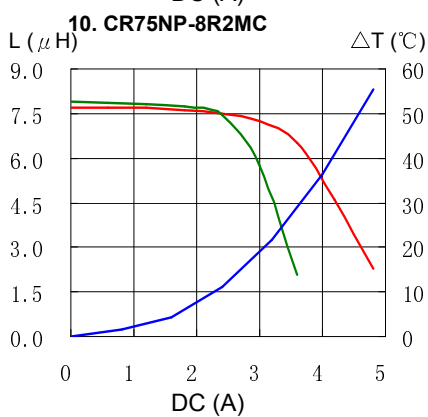
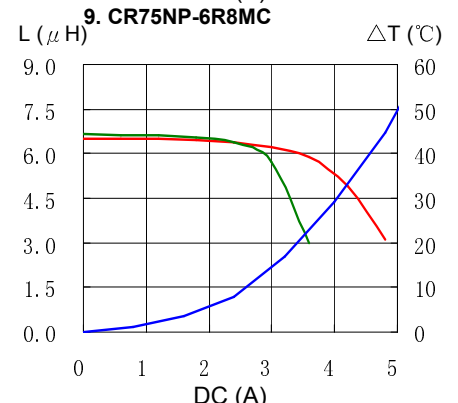
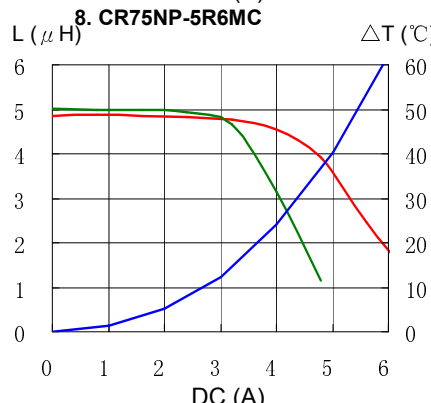
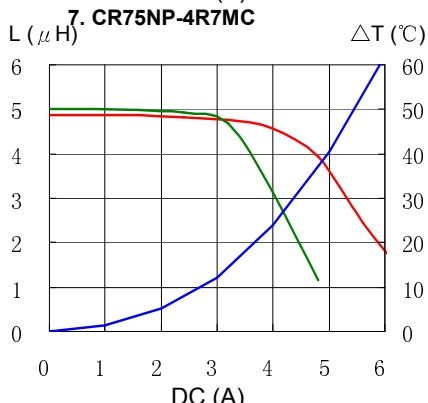
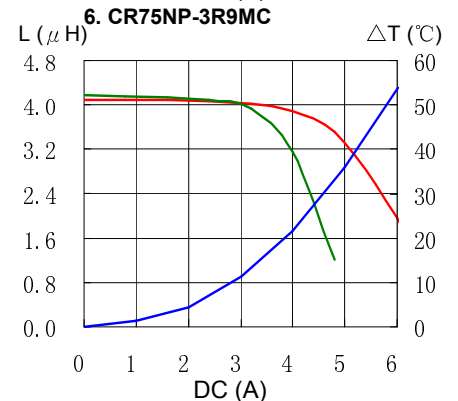
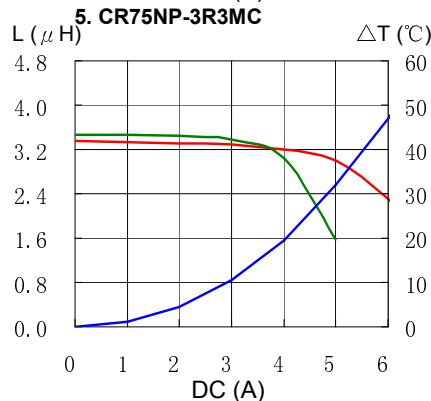
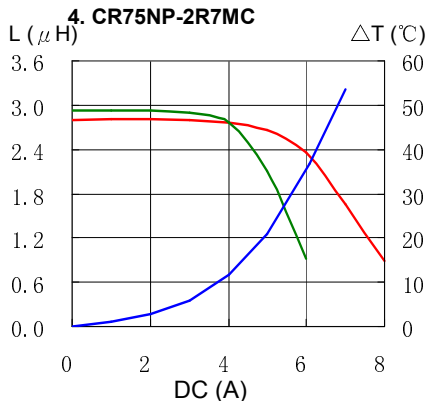
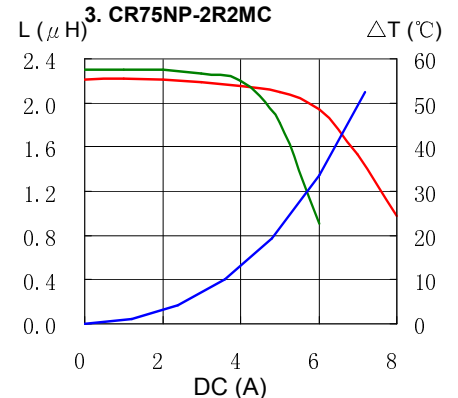
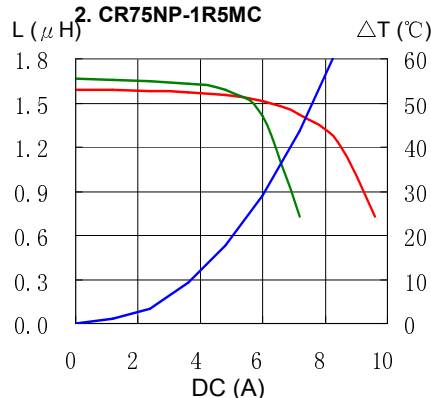
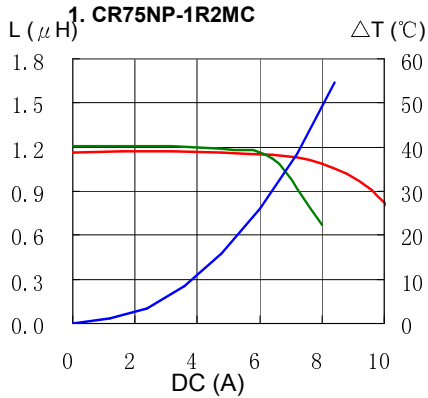
※2. Rated current: The D.C. current at which the inductance decreases to 90% of it's initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower (Ta=20°C).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

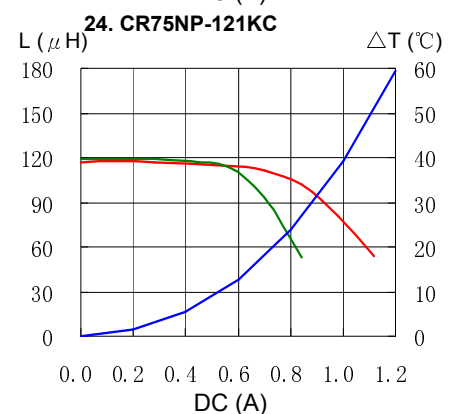
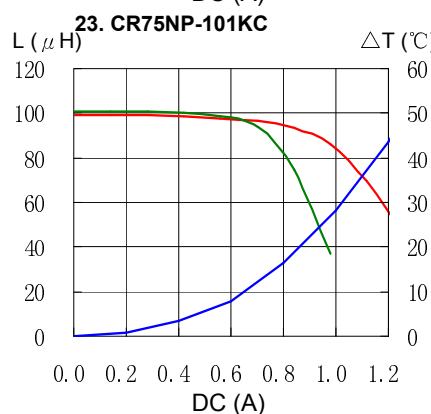
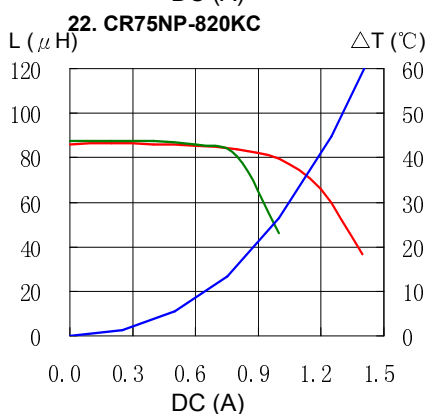
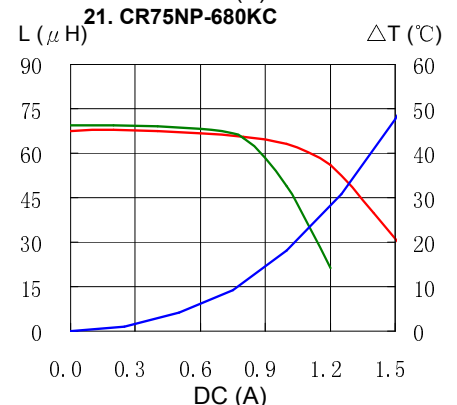
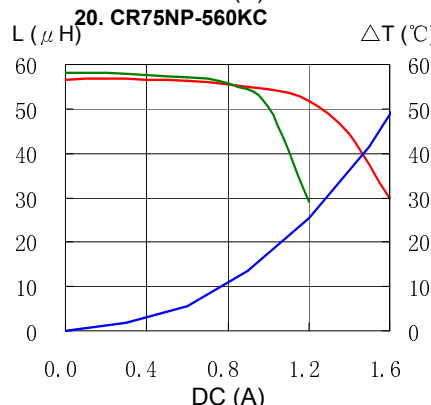
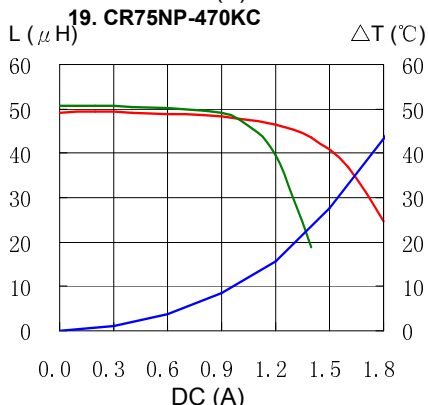
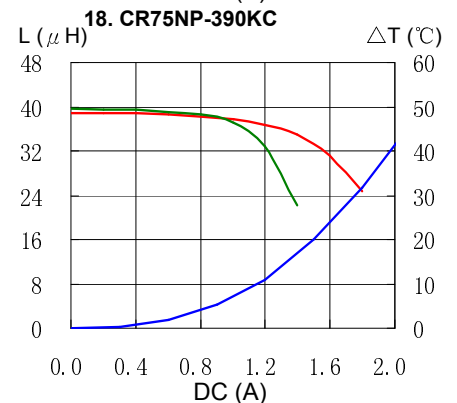
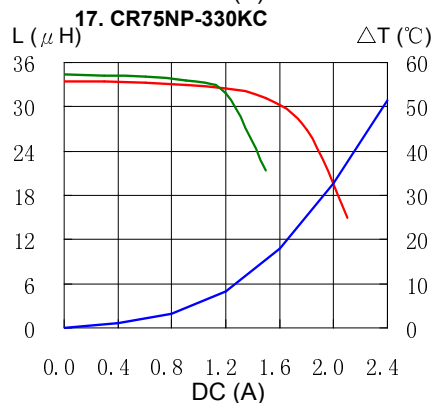
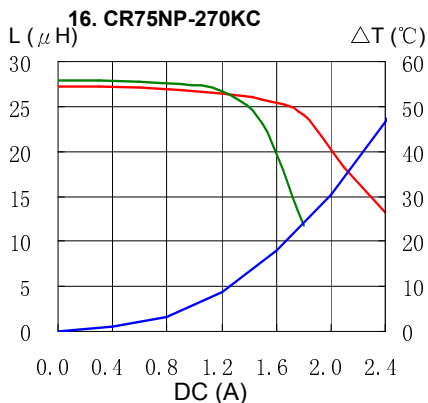
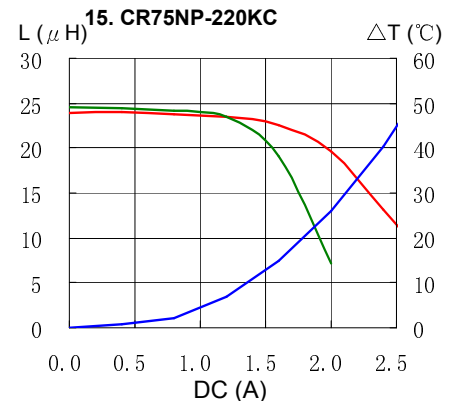
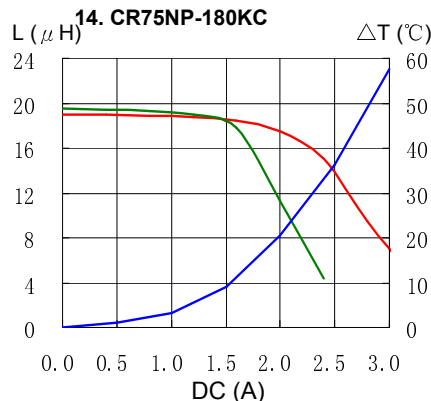
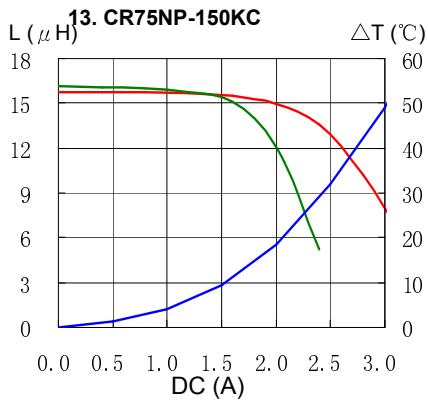


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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

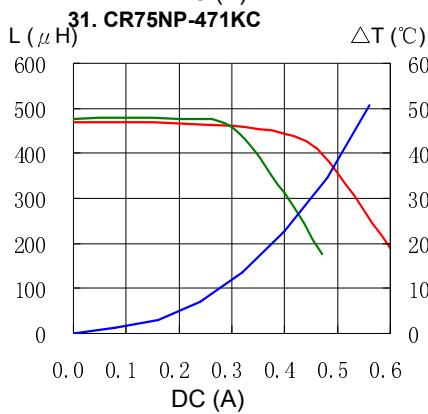
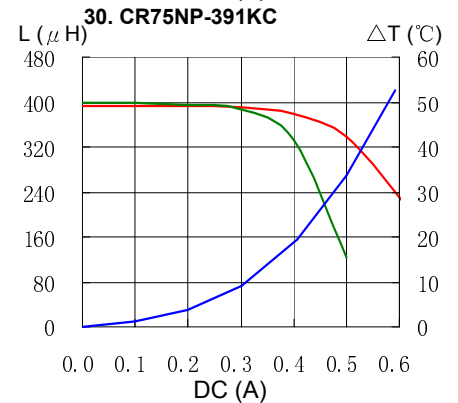
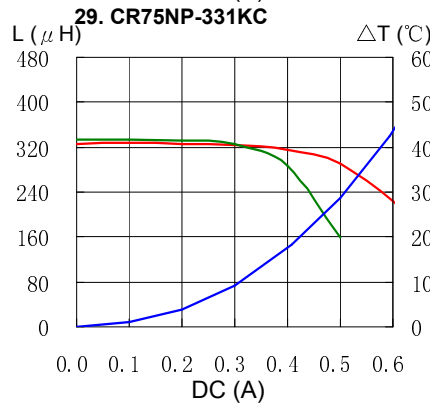
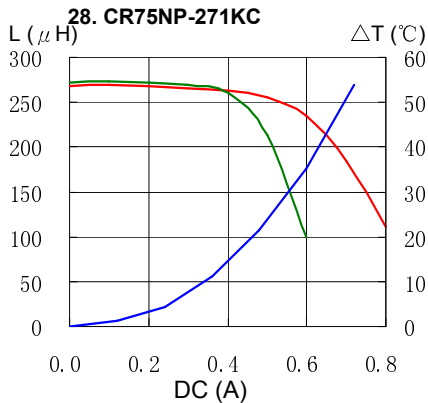
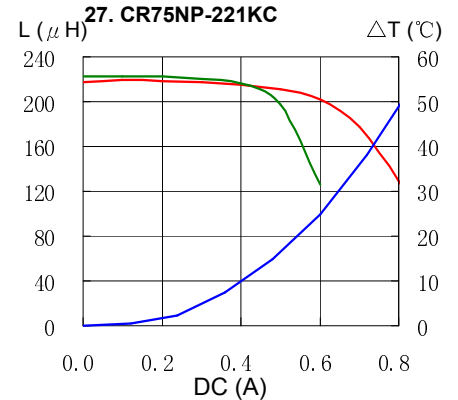
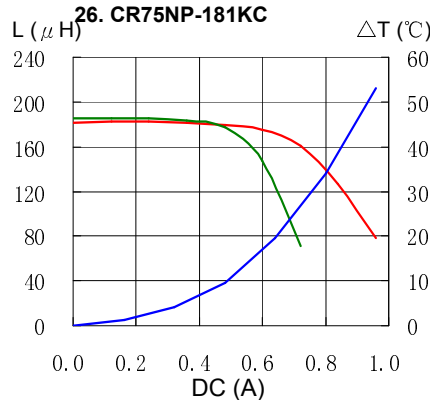
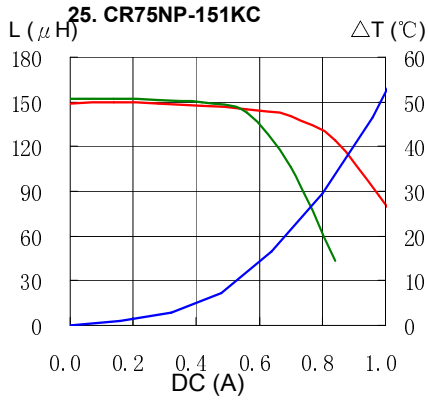


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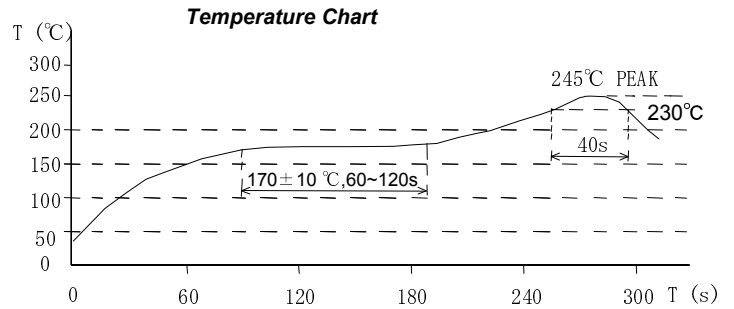
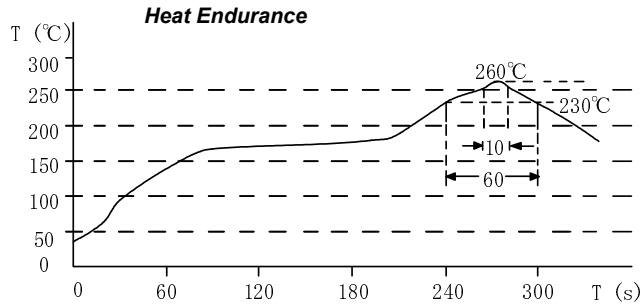
— L (20°C) — L (100°C) — ΔT



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Solder Reflow Condition



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