

# SMD Power Inductor CR75



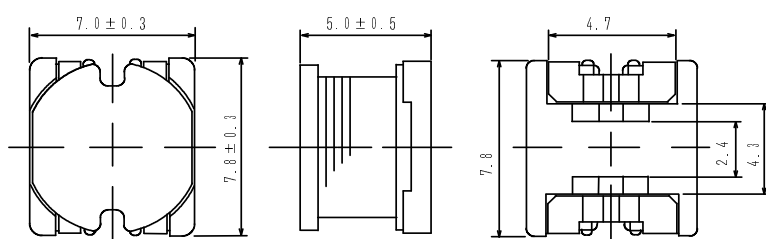
Halogen  
Free



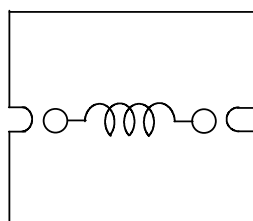
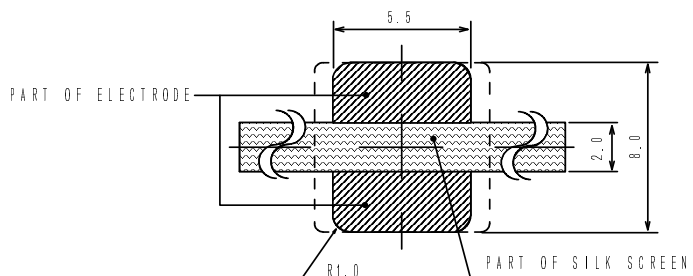
## Description

- 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.

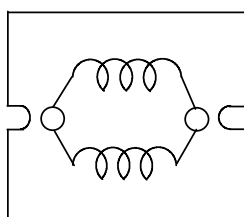
## Dimension - [mm]



## Land pattern and Schematics - [mm]



10  $\mu$  H ~ 470  $\mu$  H



1.2  $\mu$  H ~ 8.2  $\mu$  H

## 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.

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## Electrical Characteristics

| Part Name    | Stamp | Inductance<br>( $\mu$ H)<br>[ within ] ※ 1 | D.C.R. (m $\Omega$ )<br>[Max.]<br>(at 20°C) | Rated Current<br>(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  $\mu$  H  $\sim$  8.2  $\mu$  H ; at 7.96 MHz  
10  $\mu$  H  $\sim$  82  $\mu$  H ; at 2.52 MHz  
100  $\mu$  H  $\sim$  470  $\mu$  H ; at 1 kHz

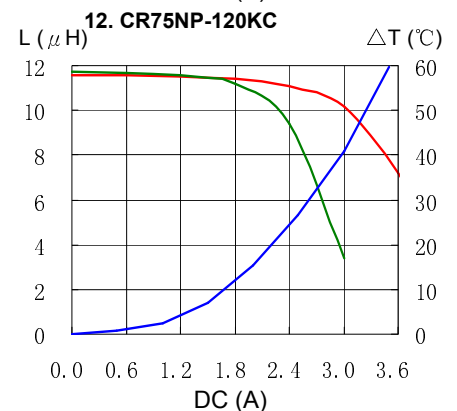
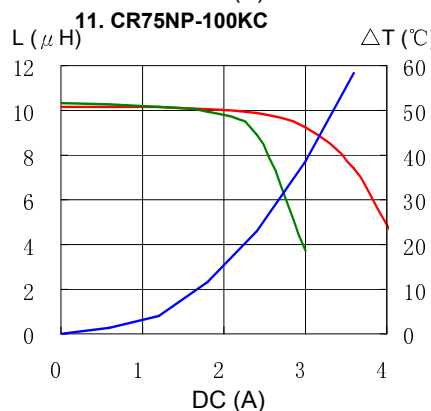
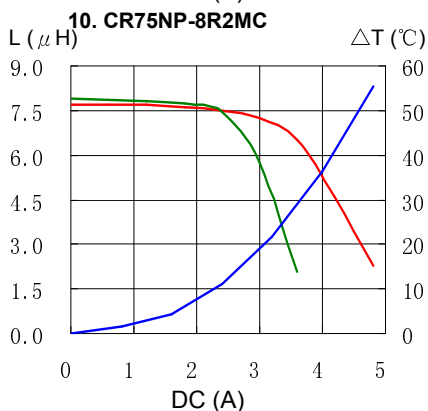
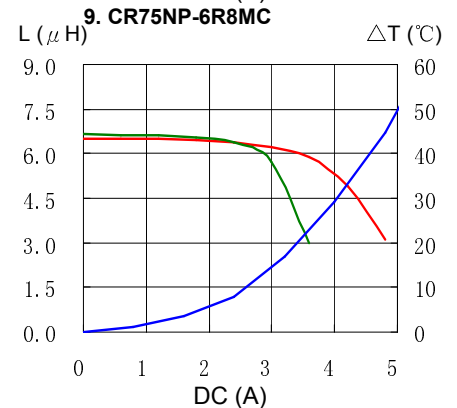
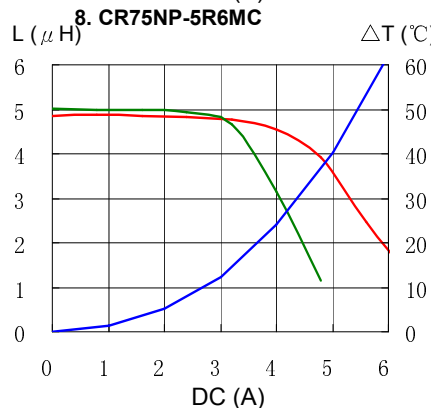
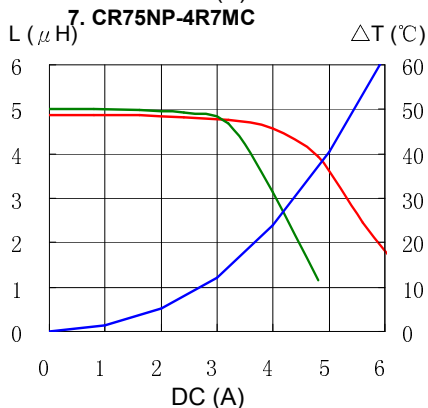
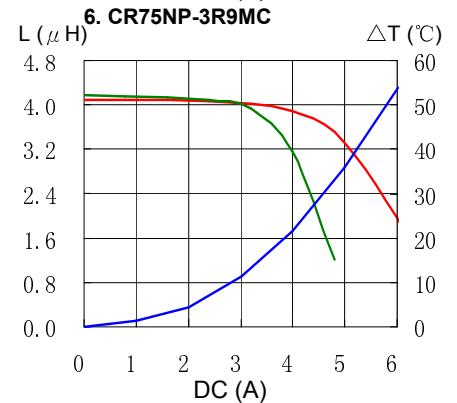
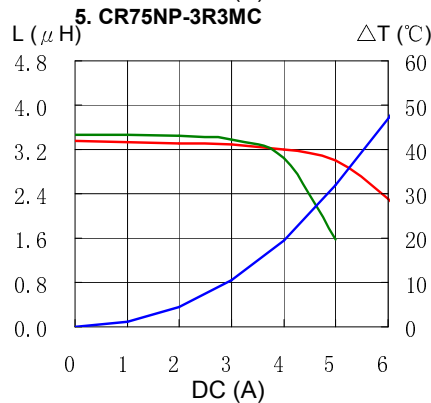
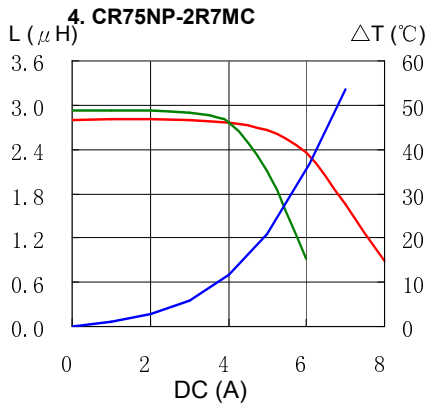
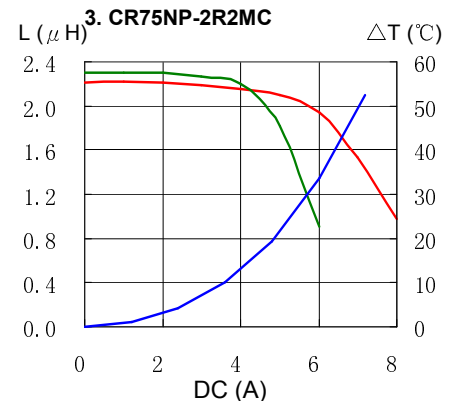
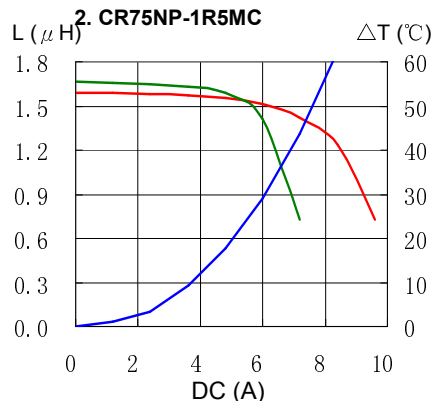
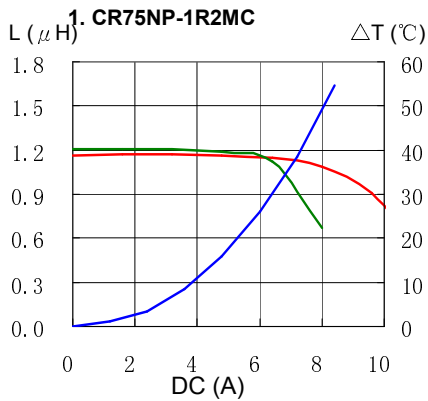
※2. Rated current: The D.C. current at which the inductance decreases to 90% of it's initial value or when  $\Delta t=40^{\circ}\text{C}$ , whichever is lower ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CR75



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

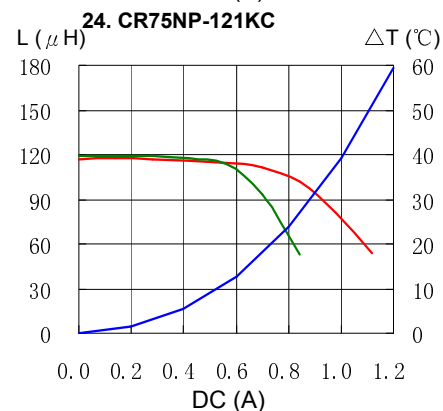
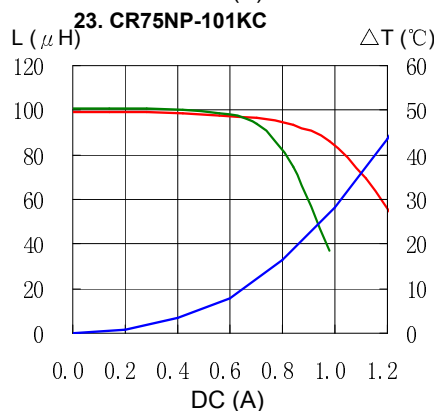
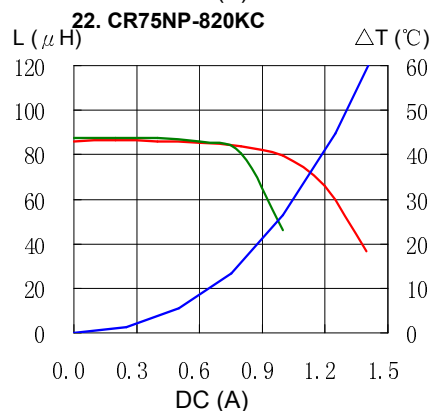
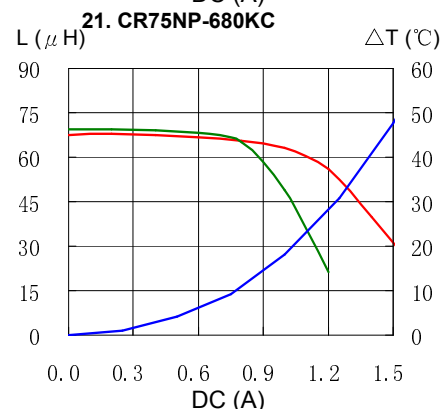
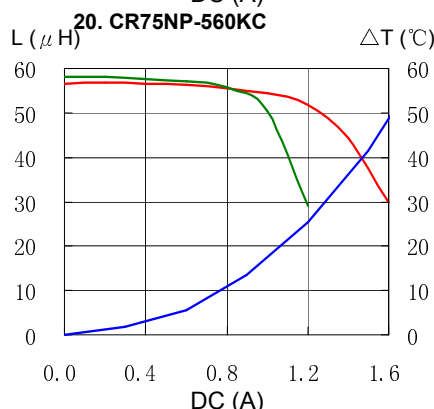
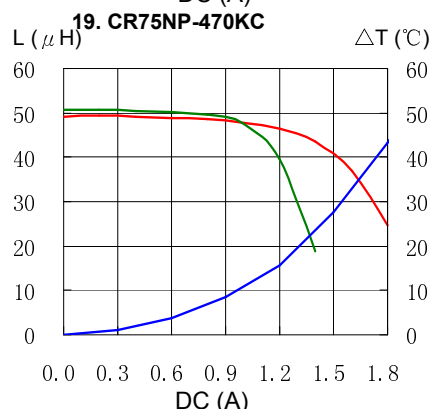
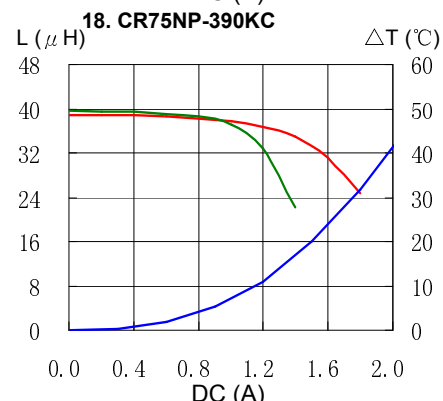
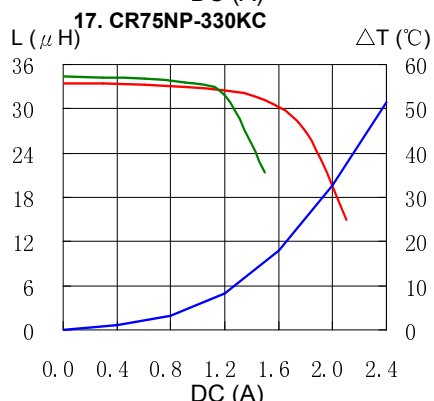
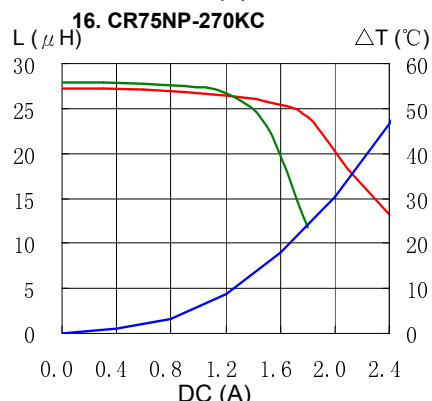
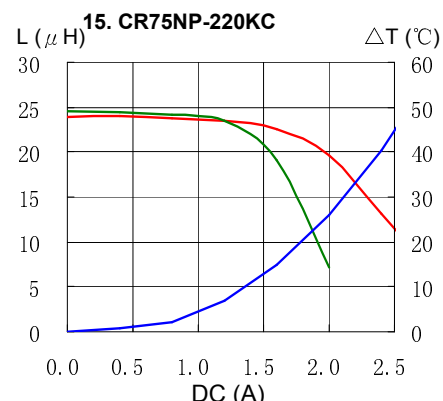
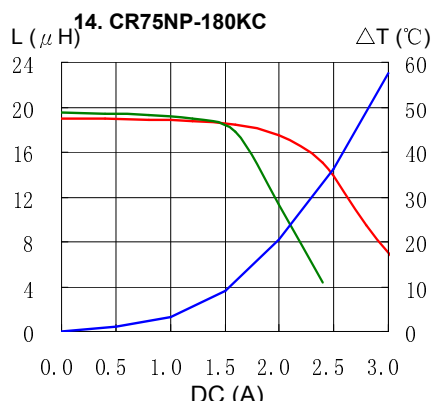
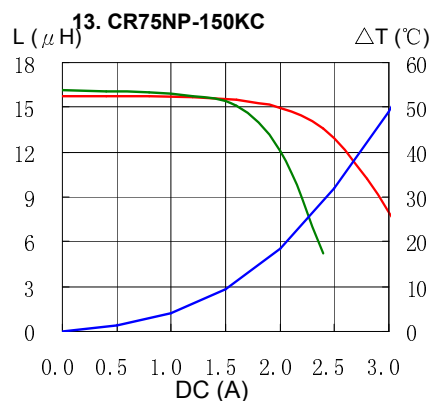


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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

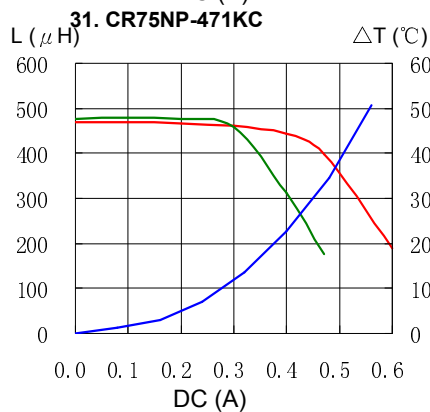
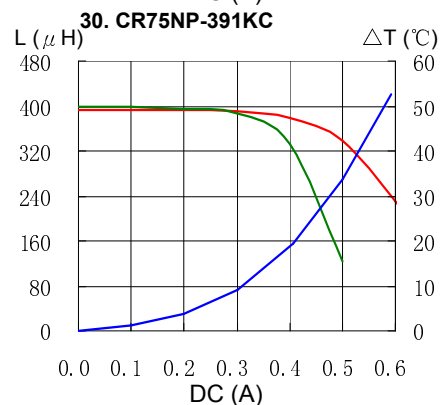
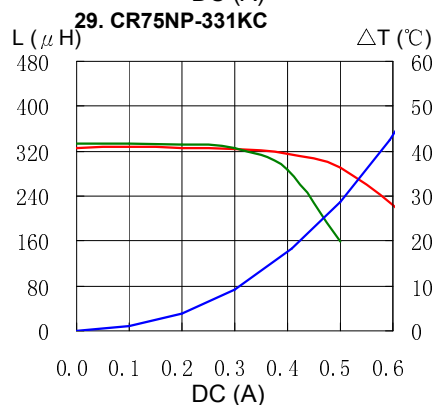
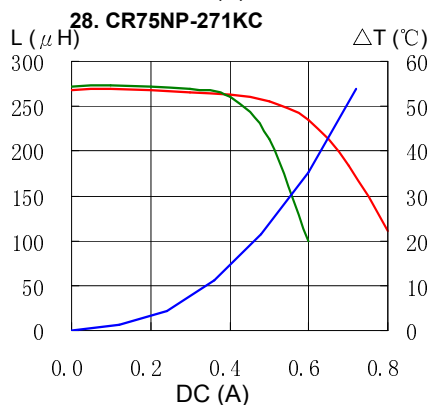
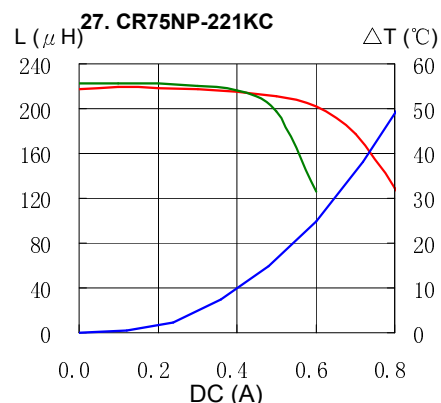
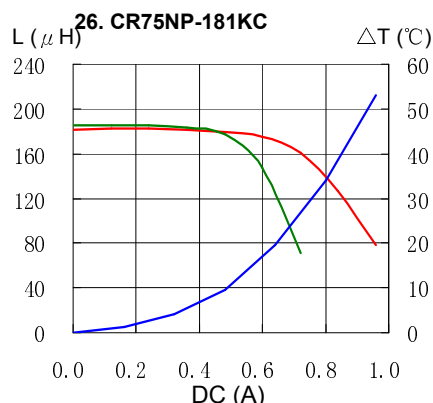
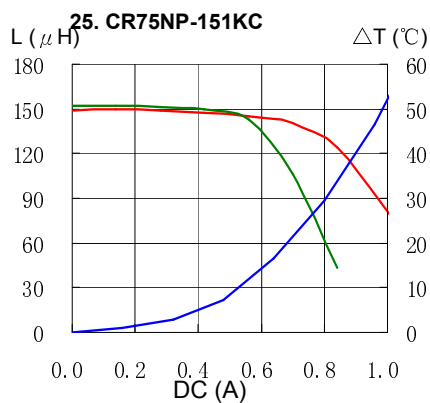


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## Saturation Current & Temperature Rise Graph

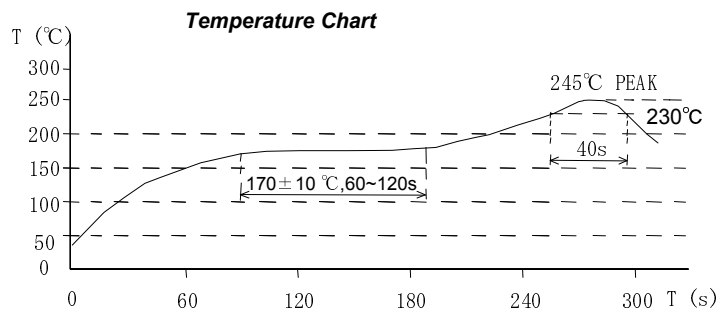
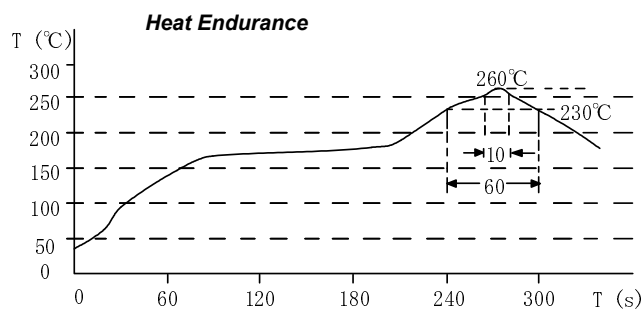
— L (20°C) — L (100°C) —  $\Delta T$



# SMD Power Inductor CR75



## Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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