

# 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.

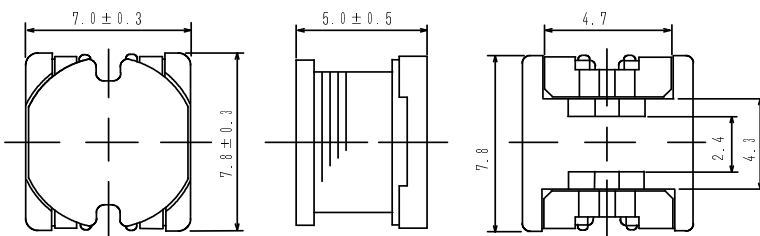
## Packaging

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

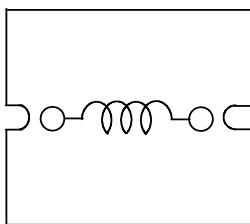
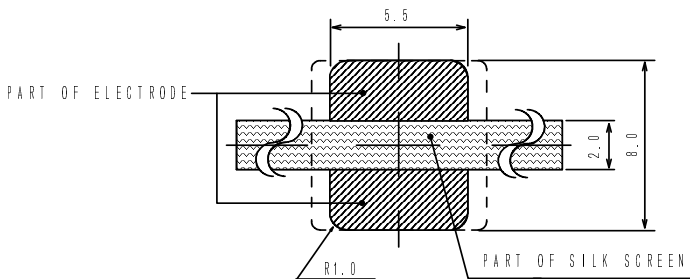
## Applications

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

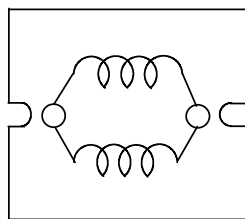
## Dimension - [mm]



## Land pattern and Schematics - [mm]



10 μ H ~ 470 μ H



1.2 μ H ~ 8.2 μ H

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## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu$ H) [ within ] ※ 1	D.C.R. (m $\Omega$ ) [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  $\mu$  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

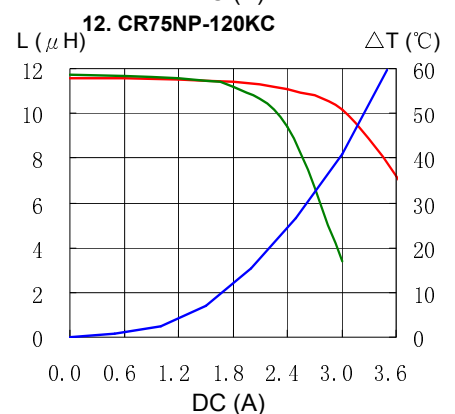
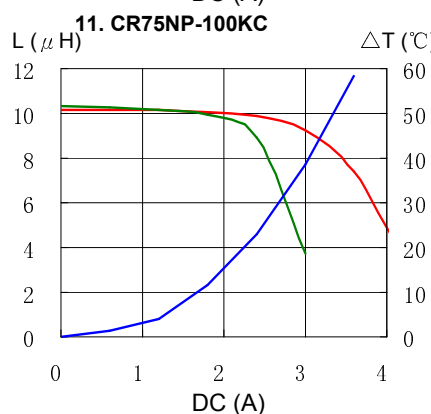
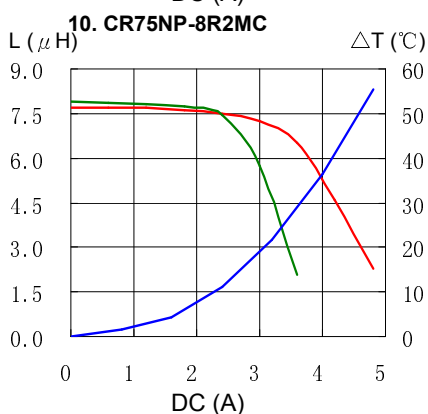
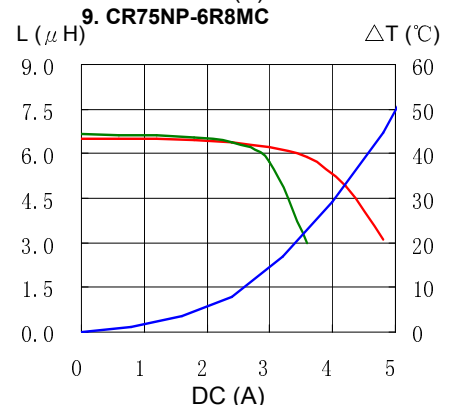
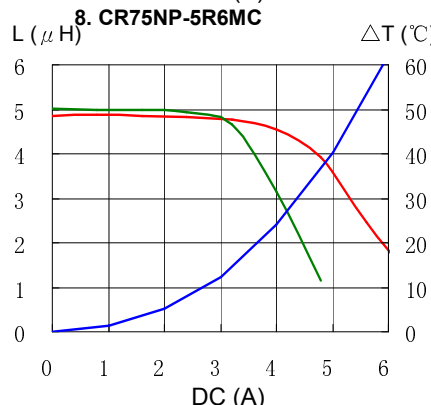
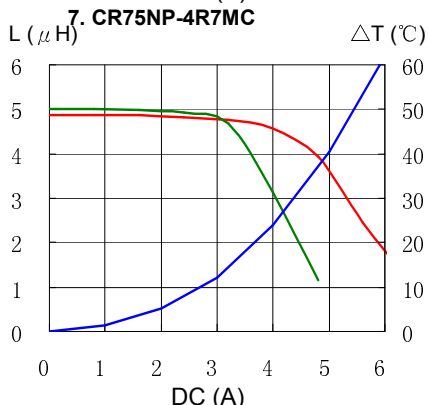
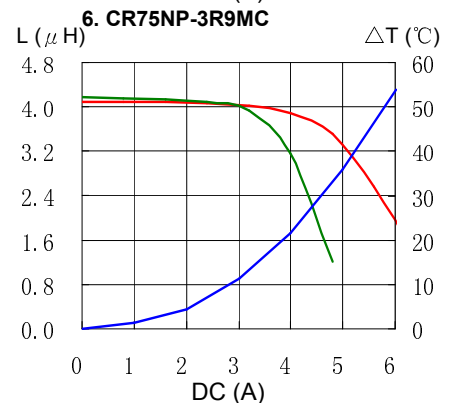
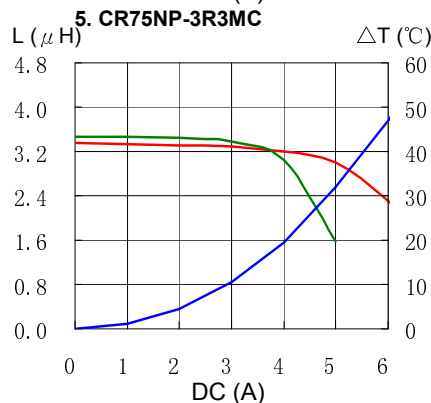
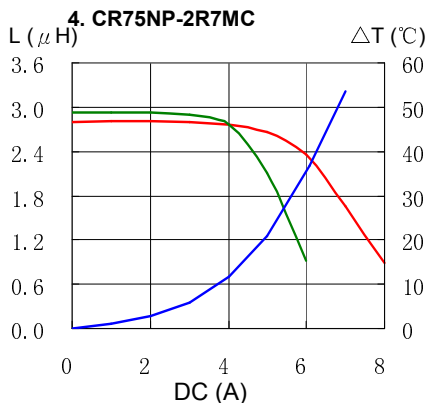
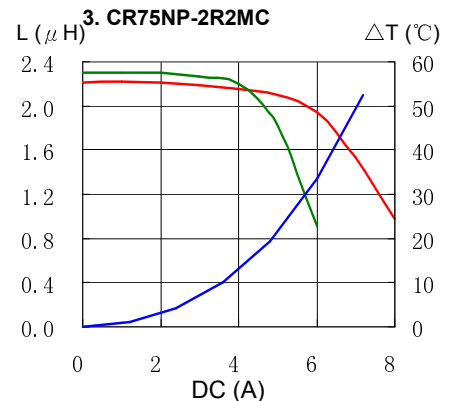
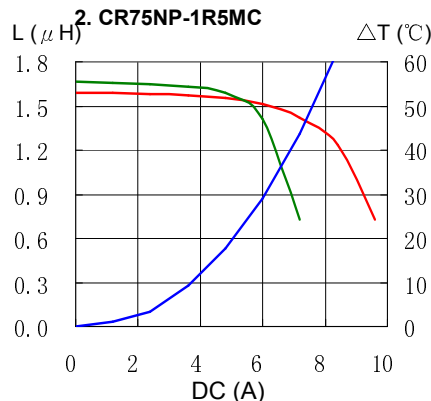
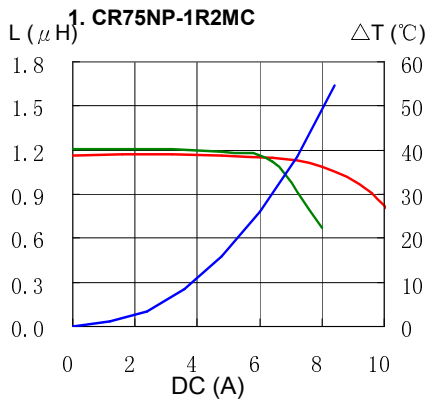
※2. Rated current: The D.C. current at which the inductance decreases to 90% of it's initial value or when  $\Delta t=40^{\circ}\text{C}$ , whichever is lower (Ta=20°C).

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

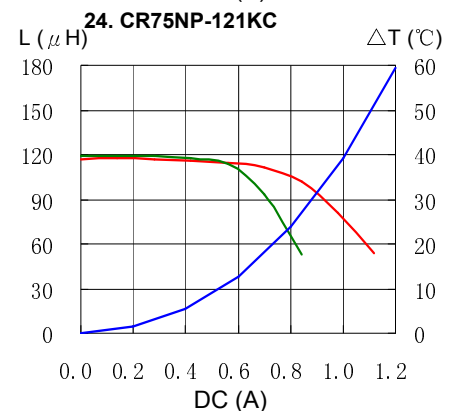
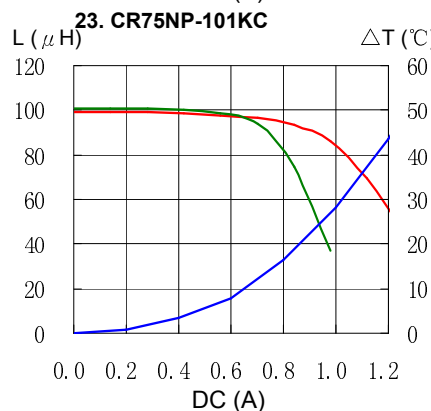
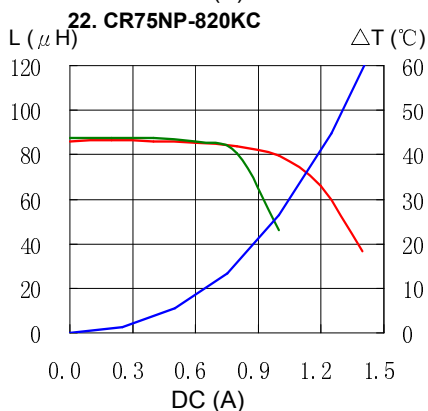
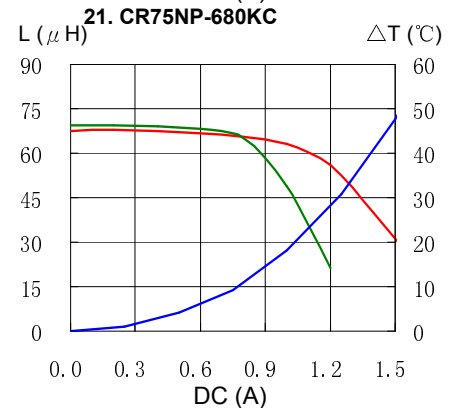
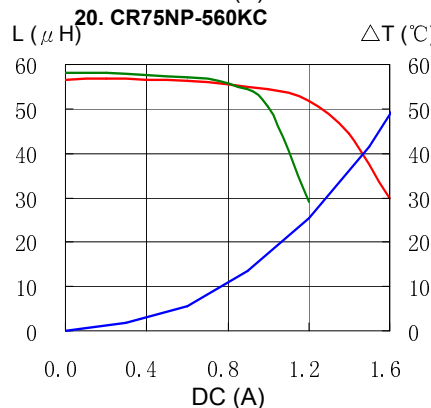
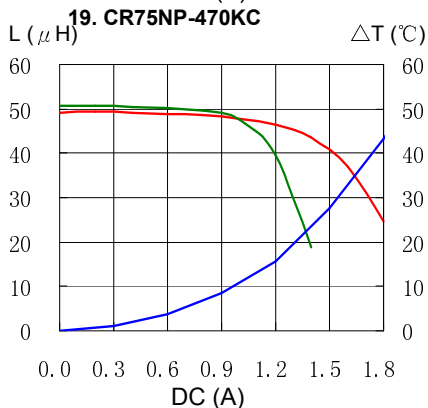
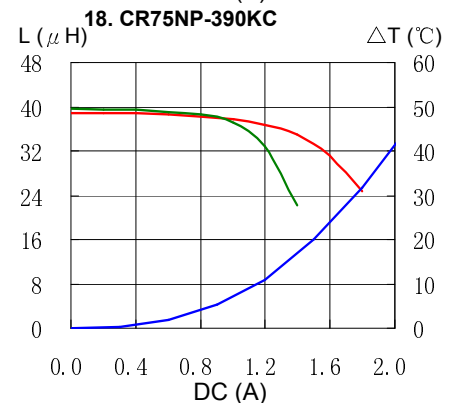
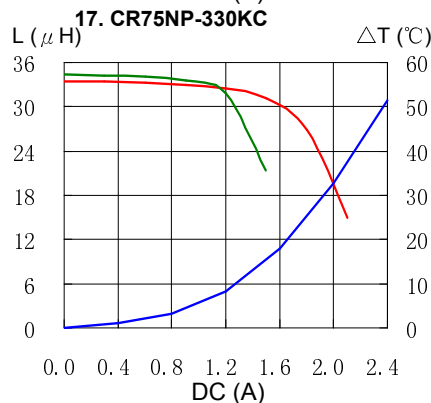
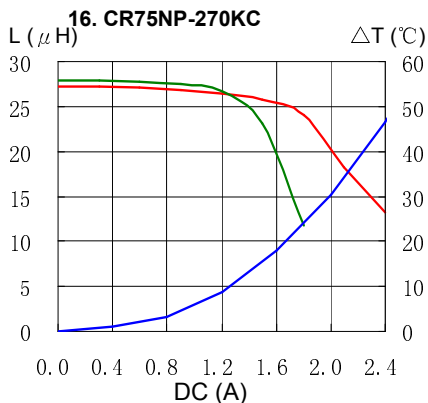
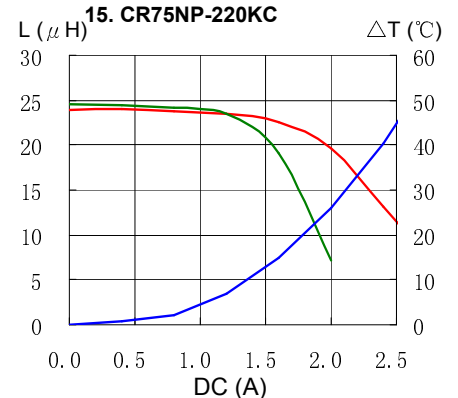
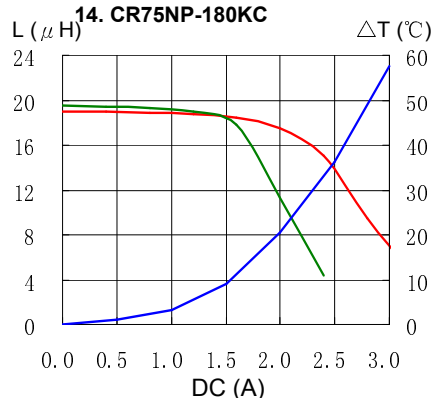
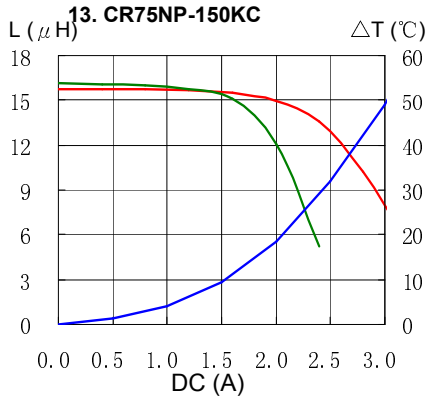


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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

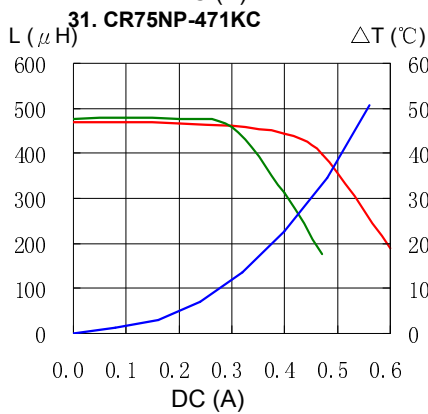
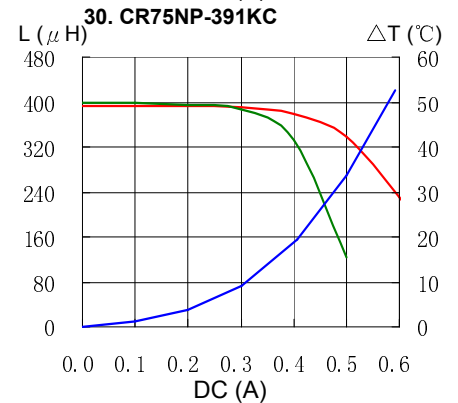
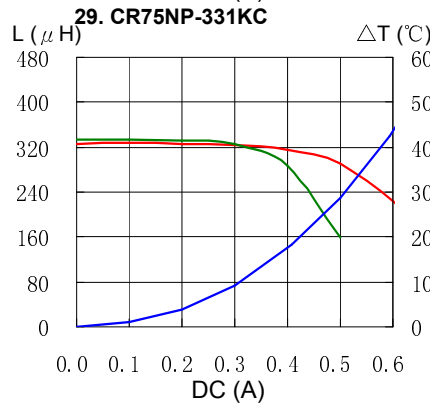
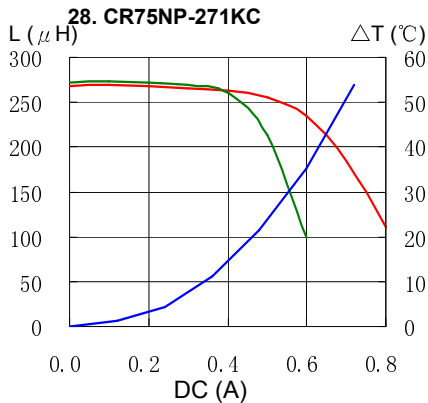
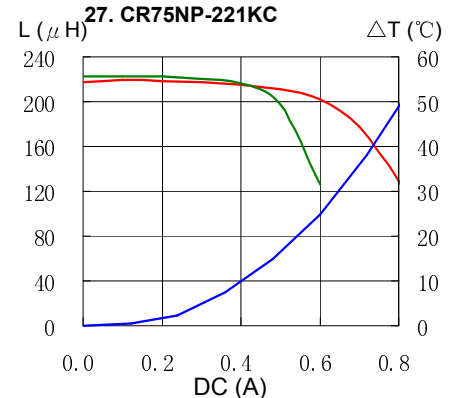
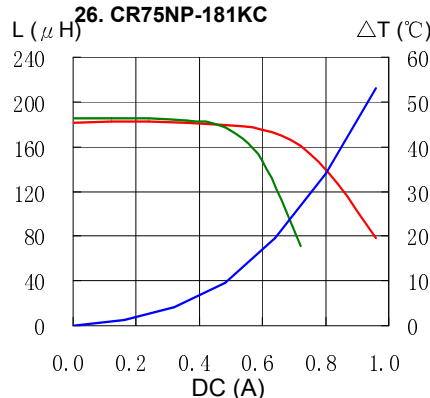
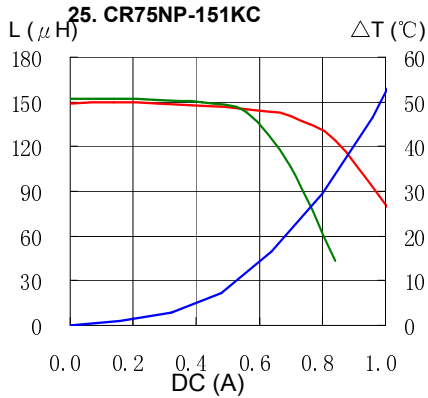


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## Saturation Current & Temperature Rise Graph

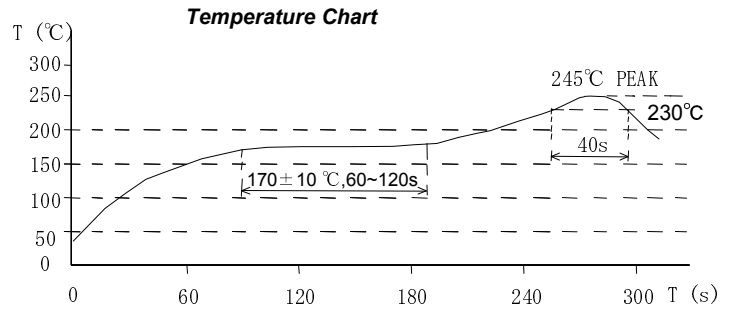
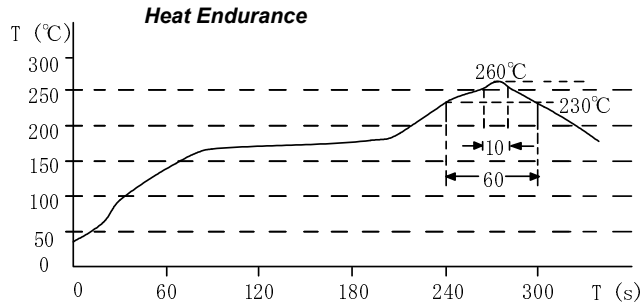
— L (20°C) — L (100°C) —  $\Delta T$



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## Solder Reflow Condition



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

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