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# SMD Power Inductor CDH115



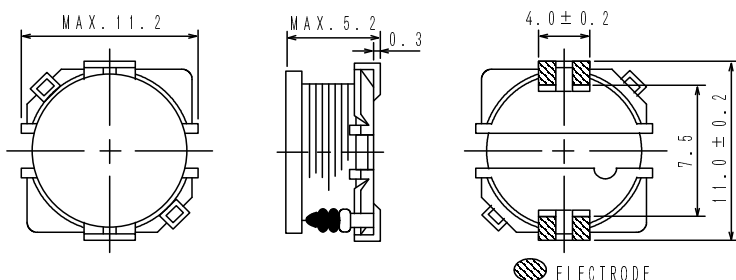
**Halogen Free**



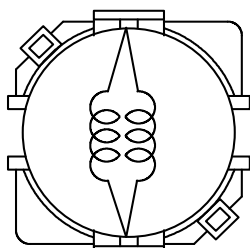
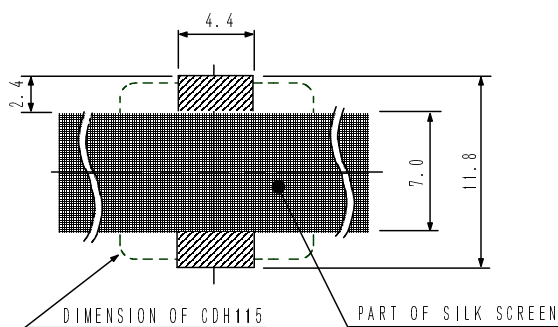
### Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 11.2 × 11.2 × 5.2 mm Max.
- Product weight: 1.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

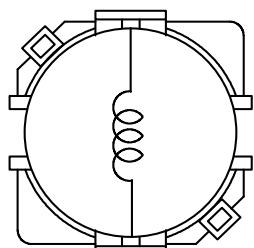
### Dimension - [mm]



### Land pattern and Schematics - [mm]



10 μH ~ 33 μH



39 μH ~ 470 μH

### 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.

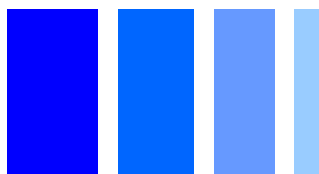
### Packaging

- Carrier tape and reel packaging.
- 12.9" diameter reel
- 500pcs per reel

### Applications

- Ideally used in Notebook PC ,DVD, LCD TV ,Game machine, Projector etc as DC-DC converter inductors.

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## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu$ H) [ within ] ※1	D.C.R.( $\Omega$ ) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDH115NP-100MC	100	10 $\pm$ 20%	28m(22m)	3.00
CDH115NP-120MC	120	12 $\pm$ 20%	33m(25m)	2.80
CDH115NP-150MC	150	15 $\pm$ 20%	39m(30m)	2.50
CDH115NP-180LC	180	18 $\pm$ 15%	49m(38m)	2.25
CDH115NP-220LC	220	22 $\pm$ 15%	60m(46m)	2.10
CDH115NP-270LC	270	27 $\pm$ 15%	70m(54m)	1.84
CDH115NP-330LC	330	33 $\pm$ 15%	82m(63m)	1.68
CDH115NP-390KC	390	39 $\pm$ 10%	0.11(85m)	1.52
CDH115NP-470KC	470	47 $\pm$ 10%	0.13(0.10)	1.36
CDH115NP-560KC	560	56 $\pm$ 10%	0.14(0.11)	1.28
CDH115NP-680KC	680	68 $\pm$ 10%	0.16(0.12)	1.20
CDH115NP-820KC	820	82 $\pm$ 10%	0.21(0.16)	1.04
CDH115NP-101KC	101	100 $\pm$ 10%	0.26(0.20)	0.96
CDH115NP-121KC	121	120 $\pm$ 10%	0.29(0.22)	0.88
CDH115NP-151KC	151	150 $\pm$ 10%	0.40(0.31)	0.76
CDH115NP-181KC	181	180 $\pm$ 10%	0.45(0.35)	0.72
CDH115NP-221KC	221	220 $\pm$ 10%	0.53(0.40)	0.66
CDH115NP-271KC	271	270 $\pm$ 10%	0.73(0.56)	0.59
CDH115NP-331KC	331	330 $\pm$ 10%	0.84(0.65)	0.53
CDH115NP-391KC	391	390 $\pm$ 10%	1.10(0.84)	0.48
CDH115NP-471KC	471	470 $\pm$ 10%	1.24(0.96)	0.45

※1. Inductance measuring condition: at 1kHz.

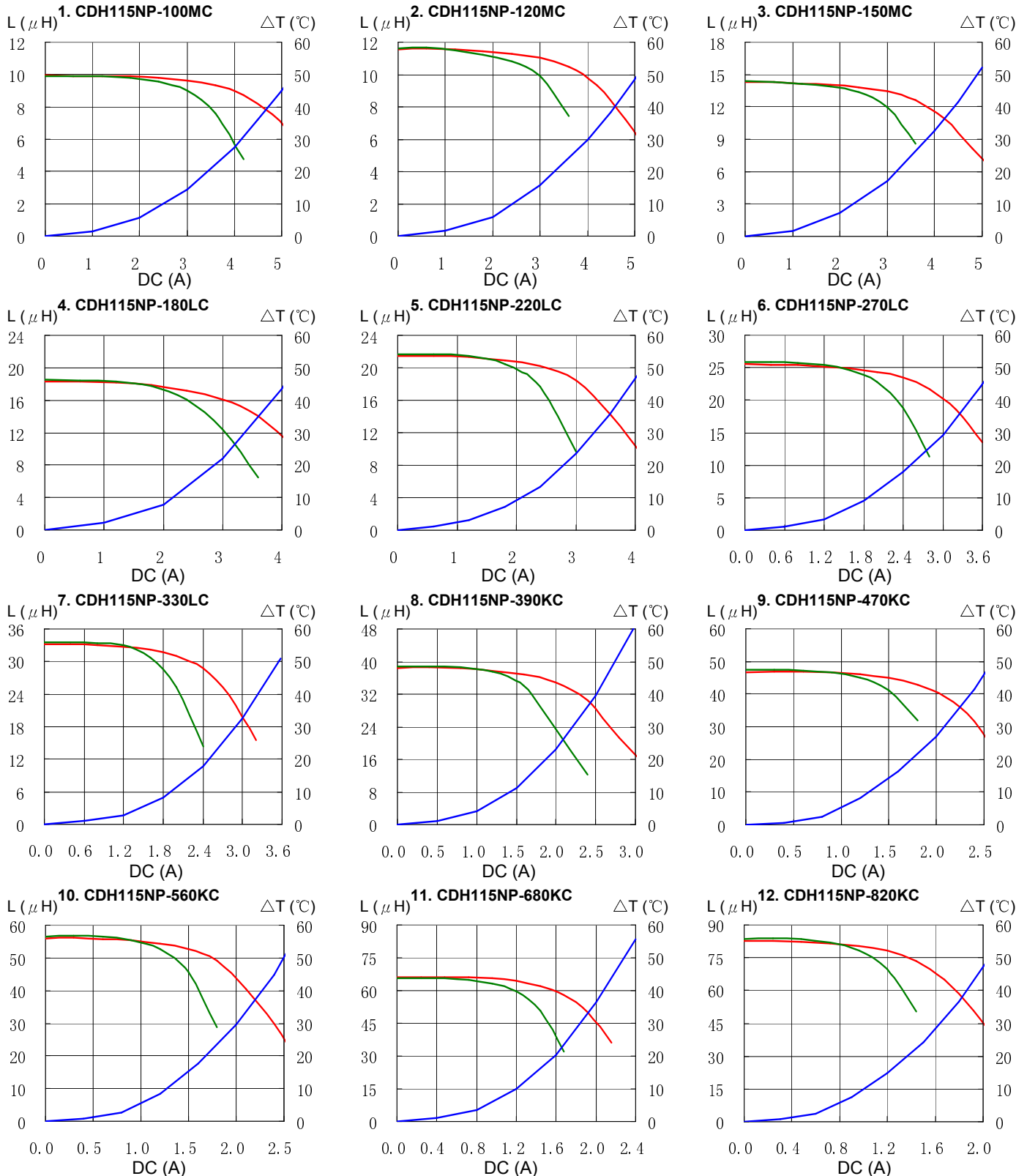
※2. Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when  $\Delta t=40^{\circ}\text{C}$ , whichever is lower ( $T_a=20^{\circ}\text{C}$ )

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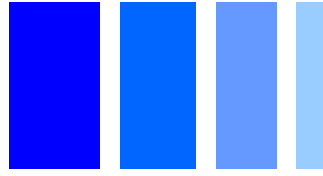


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

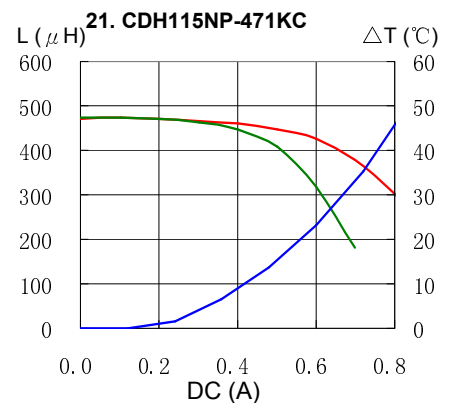
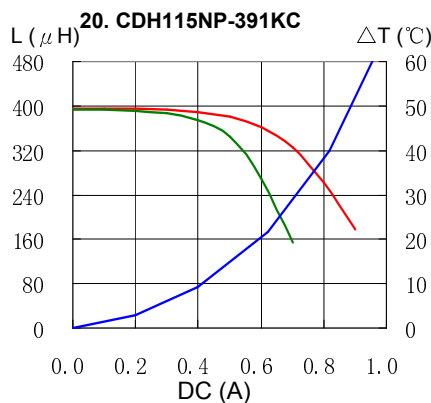
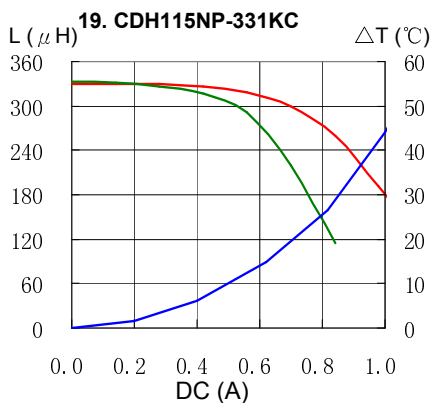
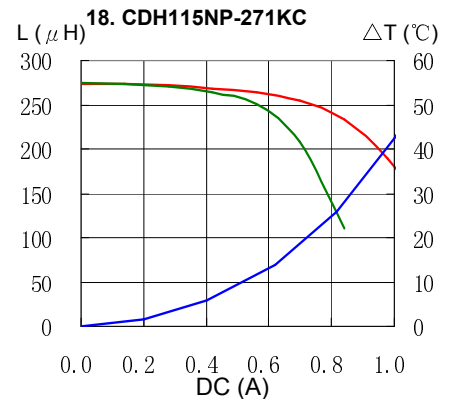
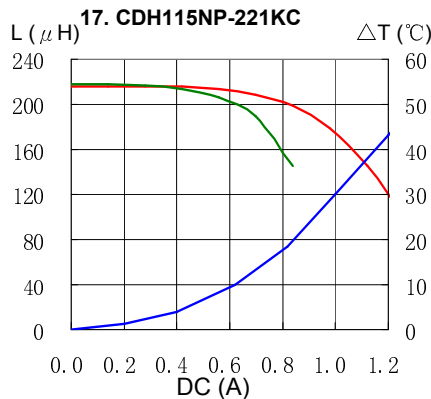
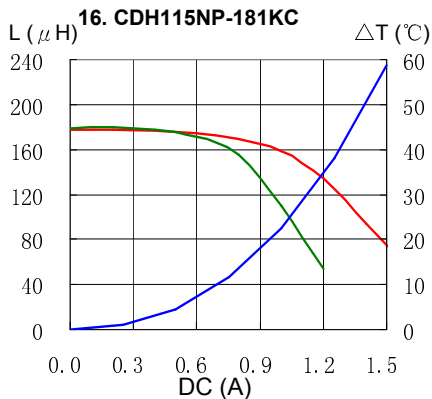
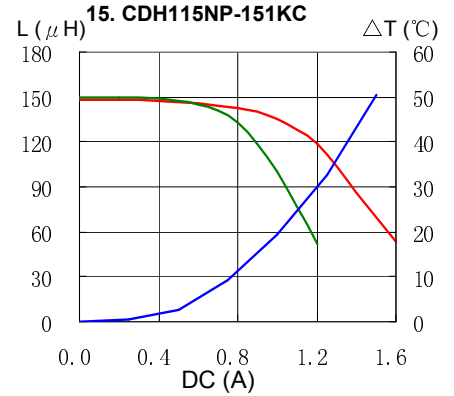
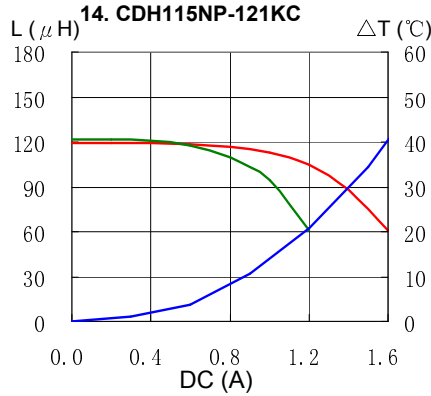
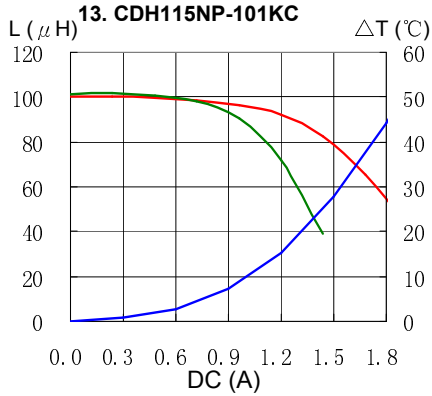


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## Saturation Current & Temperature Rise Graph

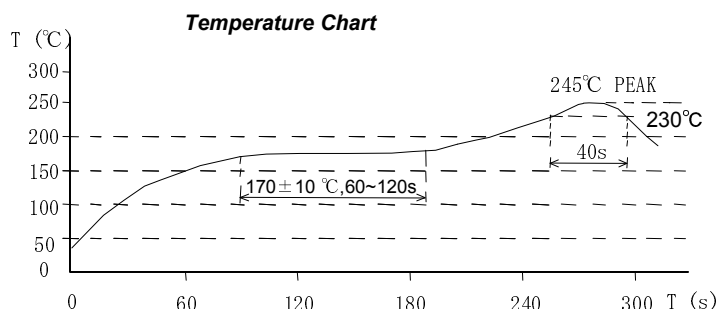
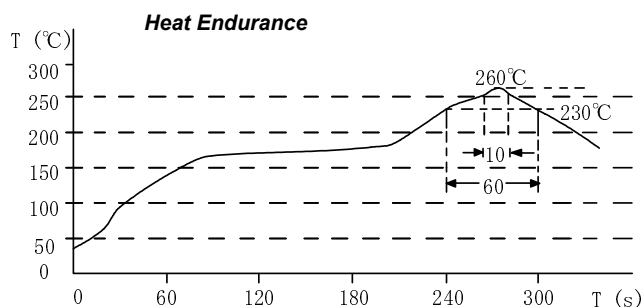
— L (20°C) — L (100°C) —  $\Delta T$



# SMD Power Inductor CDH115



## Solder Reflow Condition



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