

CDH115NP-560KC Datasheet



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DiGi Electronics Part Number	CDH115NP-560KC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDH115NP-560KC
Description	FIXED IND 56UH 1.28A 140MOHM SMD
Detailed Description	56 μ H Unshielded Drum Core, Wirewound Inductor 1.28 A 140mOhm Max Nonstandard

This model CDH115NP-560KC is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

CDH115NP-560KC

Series:

CDH115

Type:

Drum Core, Wirewound

Inductance:56 μ H**Current Rating (Amps):**

1.28 A

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 kHz

Package / Case:

Nonstandard

Size / Dimension:

0.441" L x 0.433" W (11.20mm x 11.00mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance: \pm 10%**Current - Saturation (Isat):**

-

DC Resistance (DCR):

140mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 100°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.205" (5.20mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

ECCN:

EAR99

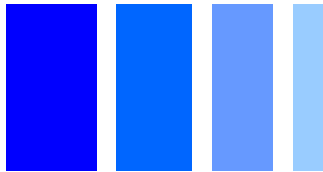
Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8504.50.4000

SMD Power Inductor CDH115



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L x W x H: 11.2 x 11.2 x 5.2 mm Max.
- Product weight: 1.6g(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.

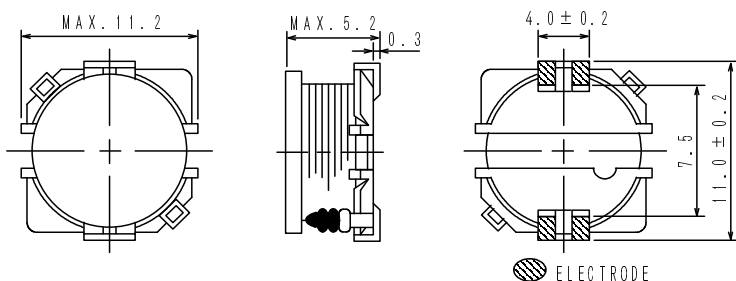
Packaging

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

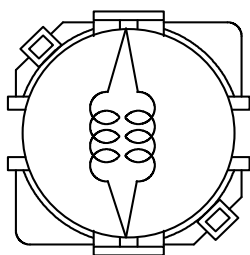
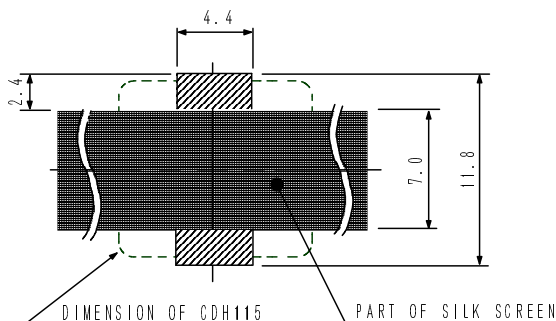
Applications

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

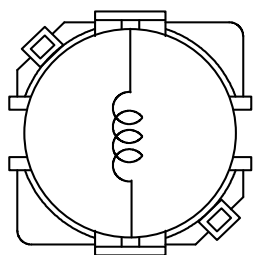
Dimension - [mm]



Land pattern and Schematics - [mm]



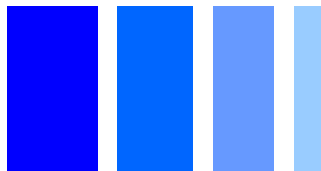
10 μ H ~ 33 μ H



39 μ H ~ 470 μ H

SMD Power Inductor

CDH115



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R.(Ω) 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.

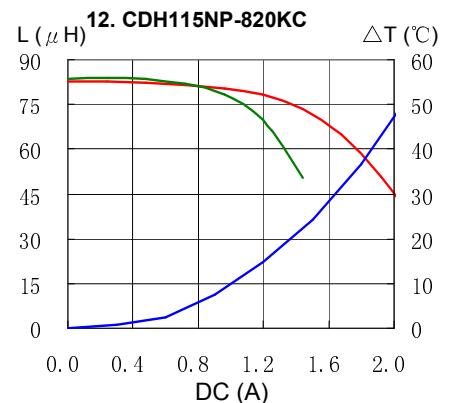
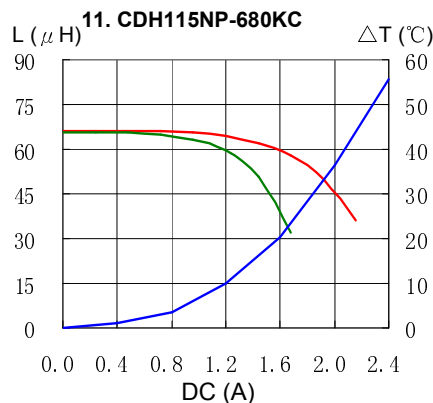
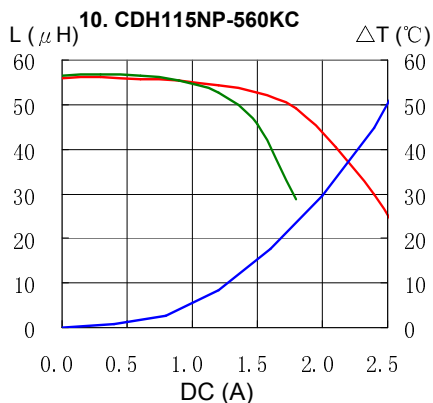
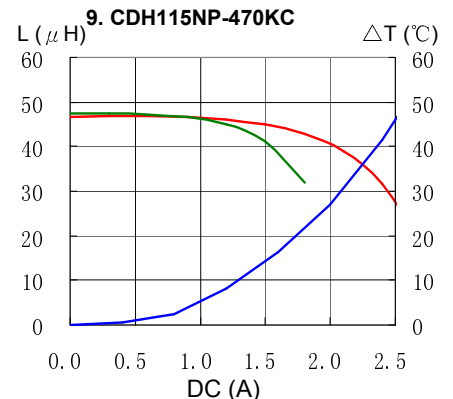
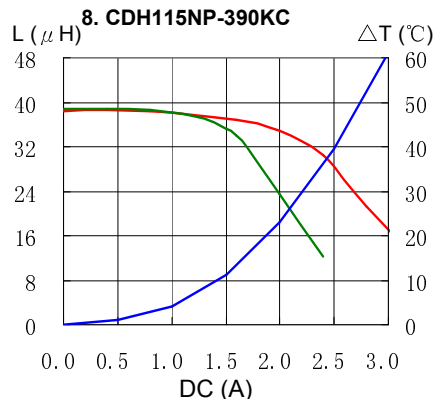
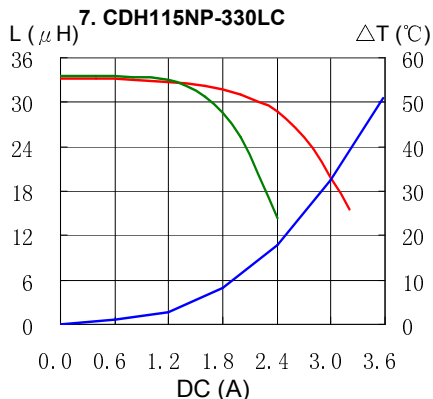
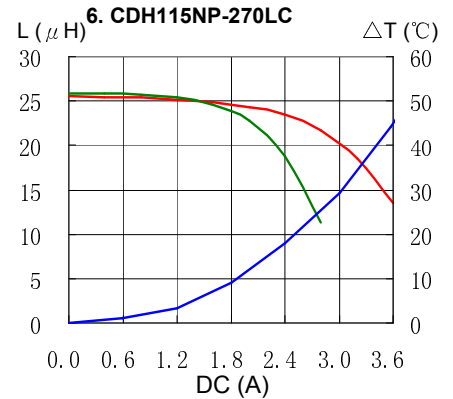
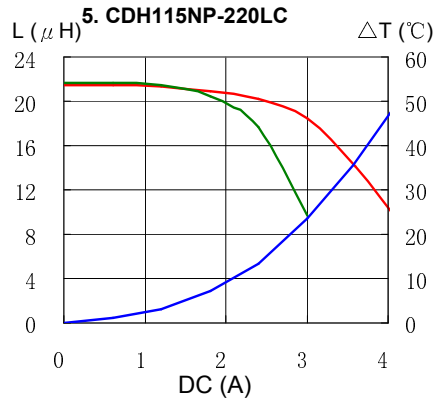
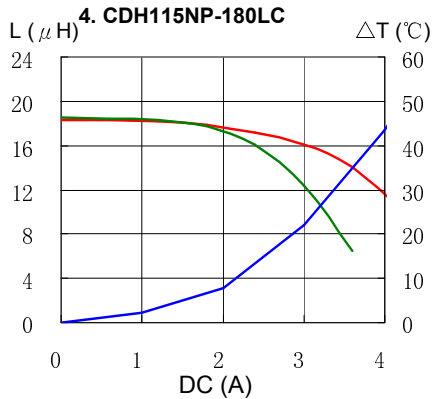
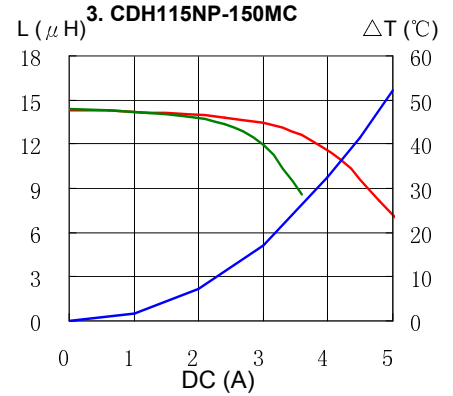
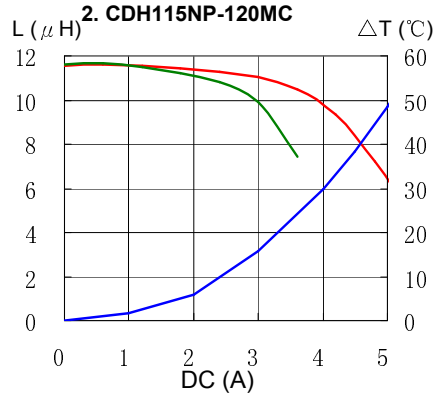
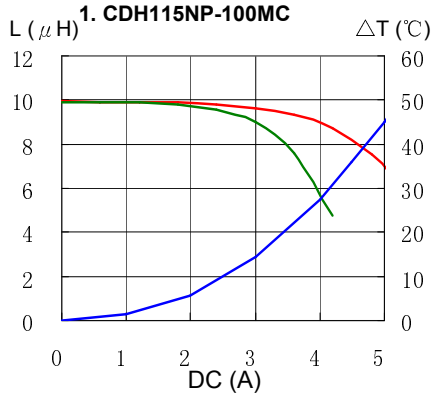
※2. Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$)

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

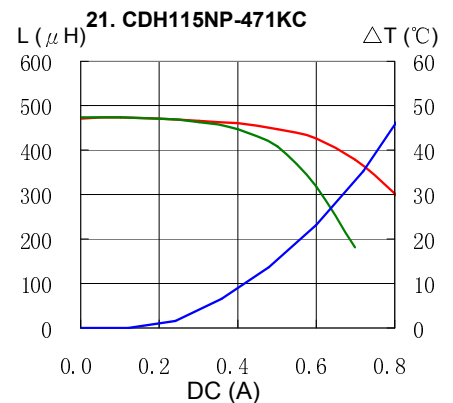
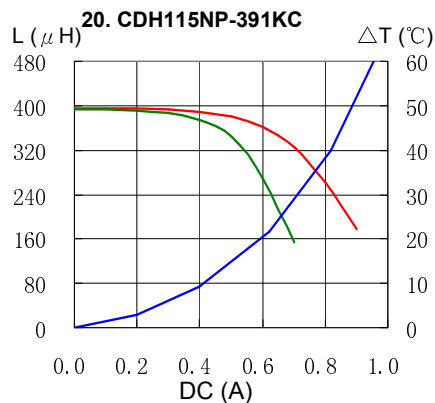
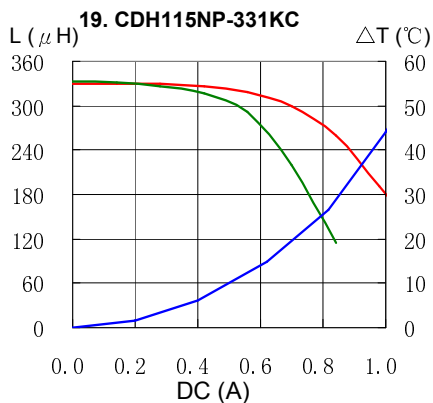
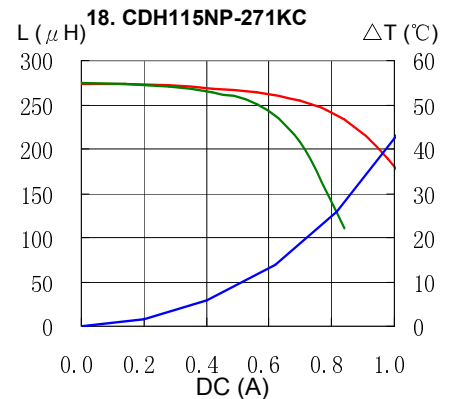
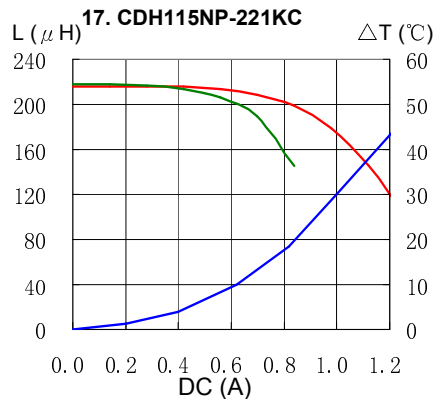
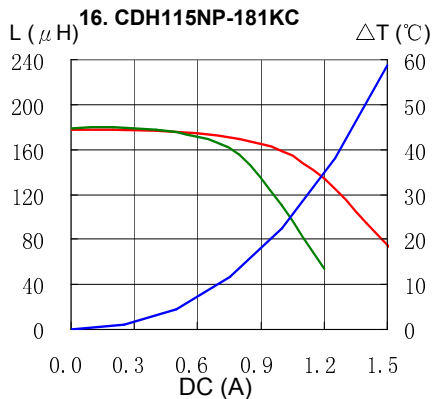
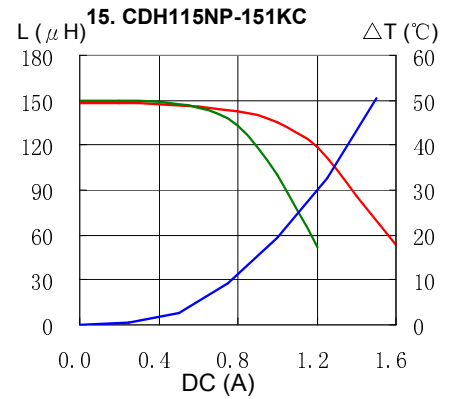
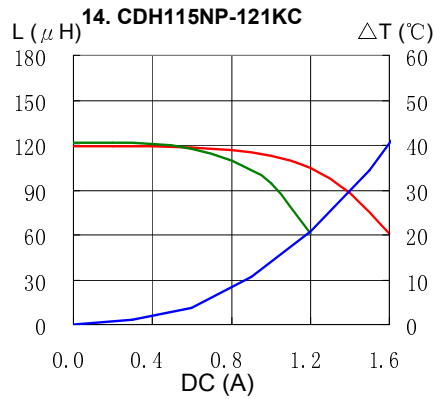
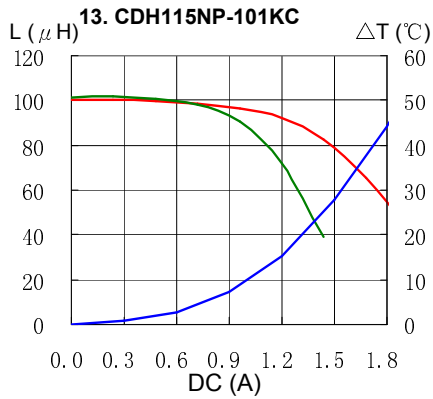


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Saturation Current & Temperature Rise Graph

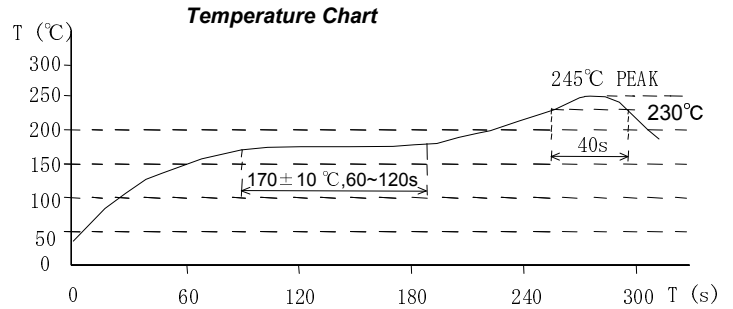
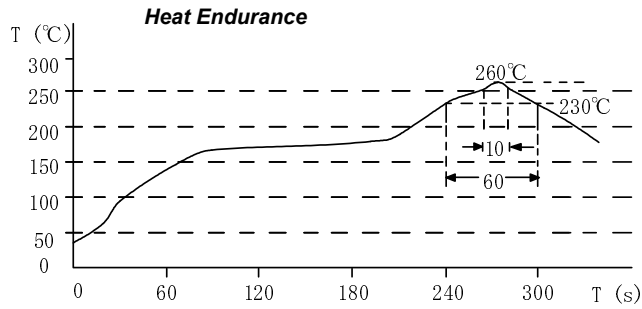
— L (20°C) — L (100°C) — ΔT



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Solder Reflow Condition



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