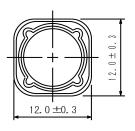
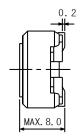


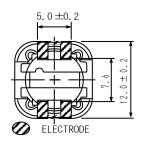




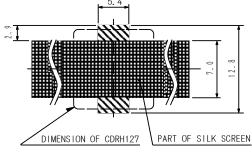
Dimension - [mm]

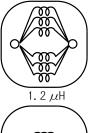


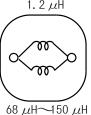


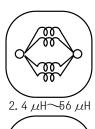


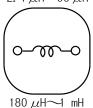
Land pattern and Schematics - [mm]











Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 8.0 mm Max.
- Product weight: 3.6g(Ref.)
- Moisture Sensitivity Level: 1
- · RoHS compliance.

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
- 13"diameter reel
- 500pcs per reel

Applications

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

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Electrical Characteristics

		INDLICTANCE	D.C.R.	SATURATION	TEMBERATURE	
DAD=	OTAMB	INDUCTANCE	(Ω)	CURRENT	TEMPERATURE	
PART NO.	STAMP	[WITHIN]	(at 20°C)	(A)※2	RISE CURRENT	
		※1	MAX.(TYP.)	MAX.(TYP.)	(A) ※ 3	
CDRH127NP-1R2NC	1R2	$^{+}$ 40 1.2µH $-$ 20%	7.0m(5.2m)	19.2(24.0)	11.3	
CDRH127NP-2R4NC	2R4	$^+$ 40 2.4µH $^-$ 20%	11.5m(8.5m)	15.2(19.0)	8.9	
CDRH127NP-3R5NC	3R5	$^{+}$ 40 $_{3.5\mu H}$ $-$ 20%	13.5m(10.0m)	12.4(15.5)	8.4	
CDRH127NP-4R7NC	4R7	$^{+}$ 40 4.7µH $^{-}$ 20%	15.8m(11.7m)	11.3(14.2)	7.8	
CDRH127NP-6R1NC	6R1	$^{+}$ 40 $_{6.1\mu H}$ $-$ 20%	17.6m(13.0m)	9.4(11.8)	7.2	
CDRH127NP-7R6NC	7R6	$^+$ 40 7.6µH $^-$ 20%	20.0m(15.0m)	8.8(11.0)	6.5	
CDRH127NP-100MC	100	10 μ H \pm 20%	21.6m(16.0m)	7.6(9.5)	6.3	
CDRH127NP-120MC	120	12 $\mu H \pm 20\%$	24.3m(18.0m)	7.3(9.2)	5.8	
CDRH127NP-150MC	150	15 μ H \pm 20%	27.0m(20.0m)	6.2(7.8)	5.5	
CDRH127NP-180MC	180	18 μ H \pm 20%	39.2m(29.0m)	5.6(7.1)	4.9	
CDRH127NP-220MC	220	22 $\mu H~\pm~20\%$	43.2m(32.0m)	5.1(6.4)	4.4	
CDRH127NP-270MC	270	27 μ H \pm 20%	45.9m(34.0m)	4.7(5.9)	3.9	
CDRH127NP-330MC	330	33 μ H \pm 20%	64.8m(48.0m)	4.2(5.3)	3.5	
CDRH127NP-390MC	390	39 μ H \pm 20%	72.9m(54.0m)	4.0(5.0)	3.4	
CDRH127NP-470MC	470	47 μ H \pm 20%	0.10 (76.0m)	3.6(4.5)	3.2	
CDRH127NP-560MC	560	56 μ H \pm 20%	0.11 (83.0m)	3.0(3.8)	2.80	
CDRH127NP-680MC	680	68 μ H \pm 20%	0.14 (0.10)	2.80(3.5)	2.50	
CDRH127NP-820MC	820	82 μ H \pm 20%	0.16 (0.12)	2.56(3.2)	2.35	
CDRH127NP-101MC	101	100 μ H \pm 20%	0.22 (0.17)	2.40(3.0)	2.05	
CDRH127NP-121MC	121	120 μ H \pm 20%	0.25 (0.18)	2.28(2.85)	1.95	
CDRH127NP-151MC	151	150 μ H \pm 20%	0.28 (0.21)	1.96(2.45)	1.80	
CDRH127NP-181MC	181	$180 \mu H \pm 20\%$	0.35 (0.26)	1.84(2.30)	1.68	
CDRH127NP-221MC	221	220µH ± 20%	0.39 (0.29)	1.60(2.00)	1.55	
CDRH127NP-271MC	271	$270 \mu ext{H} \pm 20\%$	0.56 (0.42)	1.48(1.85)	1.40	
CDRH127NP-331MC	331	$330 \mu H \pm 20\%$	0.64 (0.47)	1.32(1.65)	1.30	
CDRH127NP-391MC	391	390µH ± 20%	0.70 (0.52)	1.24(1.55)	1.20	
CDRH127NP-471MC	471	$470 \mu H \pm 20\%$	0.98 (0.73)	1.12(1.40)	1.08	
CDRH127NP-561MC	561	560µH ± 20%	1.07 (0.79)	1.02(1.28)	0.98	
CDRH127NP-681MC	681	680 μ H \pm 20%	1.46 (1.12)	0.96(1.20)	0.82	
CDRH127NP-821MC	821	820μH ± 20%	1.64 (1.26)	0.86(1.08)	0.75	
CDRH127NP-102MC	102	$1.0 \mathrm{mH} \pm 20\%$	1.82 (1.40)	0.77(0.96)	0.70	

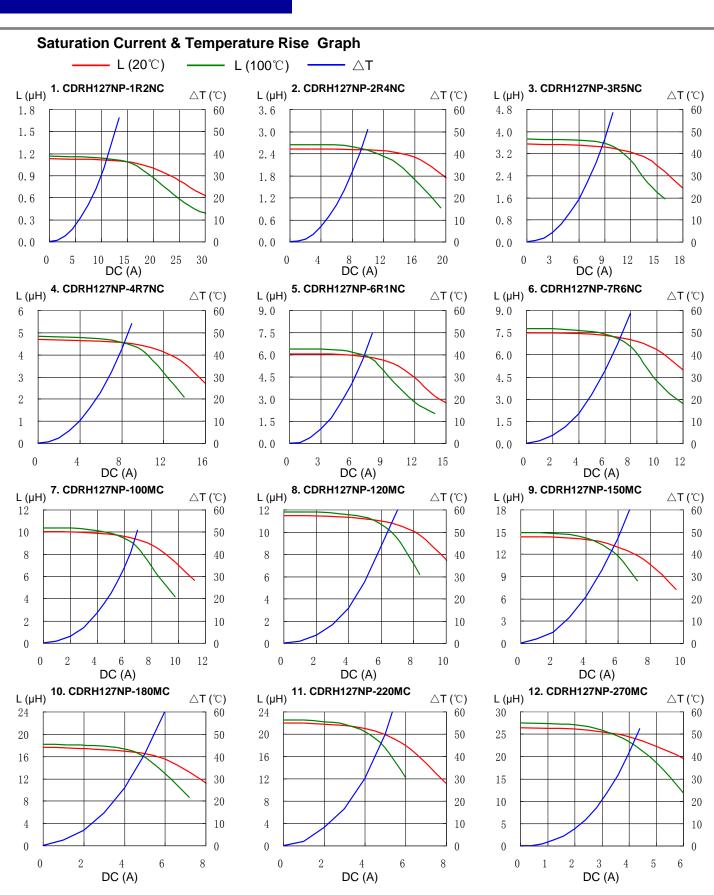
^{%1} Measured frequency $\,$ L $\,$ 1.2µH \sim 7.6µH $\,$; $\,$ at 100 kHz 10 µH \sim 1 mH $\,$; $\,$ at 1 kHz

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[%]2 Saturation current: This indicates the value of D.C. current when the inductance becomes 25% lower than it's initial value. (Ta=20°C)

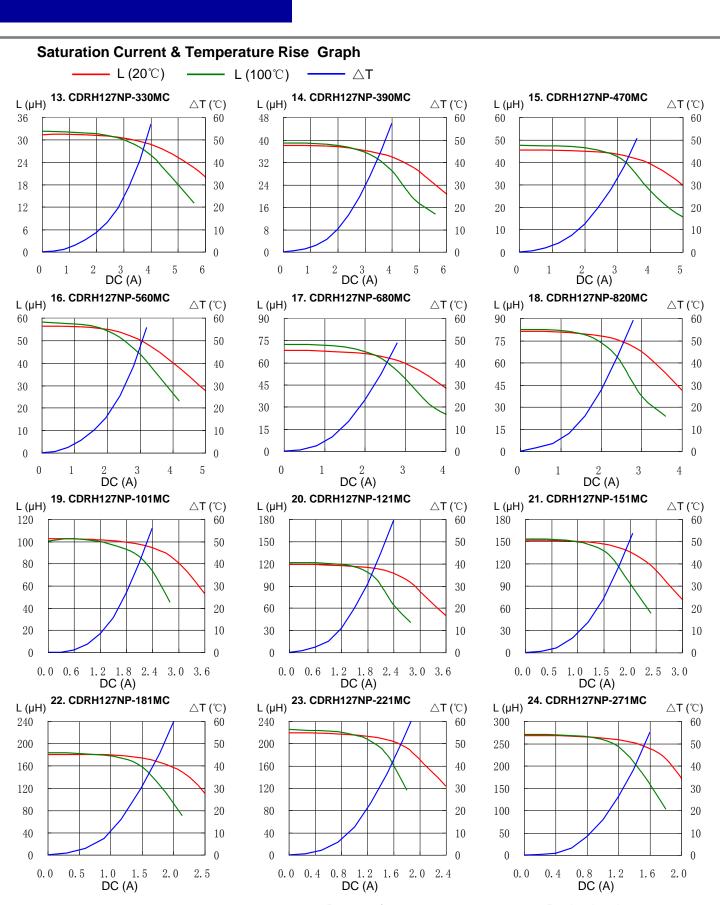
³ Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40\%$ (Ta=20%).





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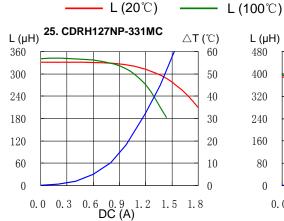
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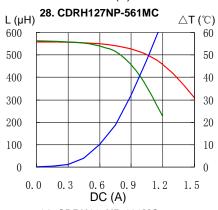
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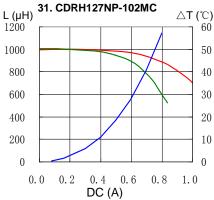


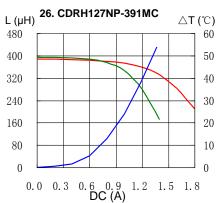


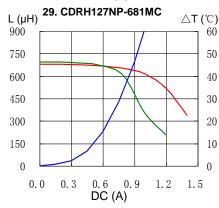
Saturation Current & Temperature Rise Graph

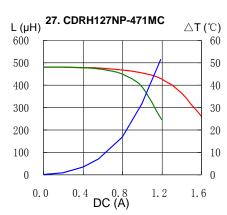


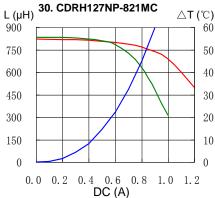








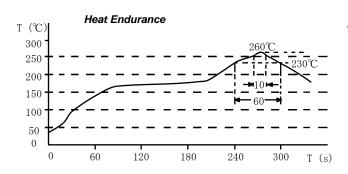


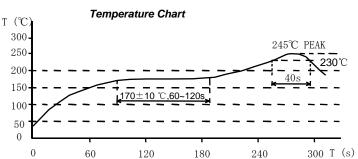


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Solder Reflow Condition





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Hong Kong

Tel.+852-2880-6781 FAX.+852-2565-9600 sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300 FAX.+81-48-691-7340

sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700 FAX. +1-847-545-6720 sales@us.sumida.com Shanghai

Tel.+86-21-5836-3299 FAX.+86-21-5836-3266

shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777 FAX.+82-2-6237-0778

sales@kr.sumida.com

Obernzell

Tel.+49-8591-937-0 FAX. +49-8591-937-103 contact@eu.sumida.com Shenzhen

Tel.+86-755-8291-0228 FAX.+86-755-8291-0338

shenzhen.sales@cn.sumida.com

Singapore Tel.+65-6296-3388

FAX.+65-6841-4426 sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110 FAX. +49-9181-4509-310 infocomp@eu.sumida.com

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Taipei Tel.+886-2-8751-2737

FAX.+886-2-8751-2738 sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660 FAX.+1-408-321-9308 sales@us.sumida.com

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Mouser Electronics

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Sumida:

CDRH127NP-1R2NO	CDRH127NP-121MC	CDRH127NP-681MC	CDRH127NP-101MC	CDRH127NP-6R1NC
CDRH127NP-181MC	CDRH127NP-821MC	CDRH127NP-561MC	CDRH127NP-150MC	CDRH127NP-220MC
CDRH127NP-221MC	CDRH127NP-7R6NC	CDRH127NP-820MC	CDRH127NP-2R4NC	CDRH127NP-180MC
CDRH127NP-560MC	CDRH127NP-102MC	CDRH127NP-470MC	CDRH127NP-100MC	CDRH127NP-680MC
CDRH127NP-120MC	CDRH127NP-271MC	CDRH127NP-4R7NC	CDRH127NP-3R5NC	CDRH127NP-270MC
CDRH127NP-331MC	CDRH127NP-390MC			