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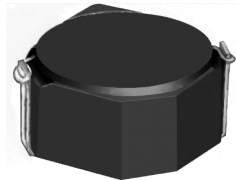
[Sumida Corporation](#)

[CDRH3D28/LDNP-221NC](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# SMD Power Inductor CDRH3D28/LD



### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 3.0 mm Max.
- Product weight: 130mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

### Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

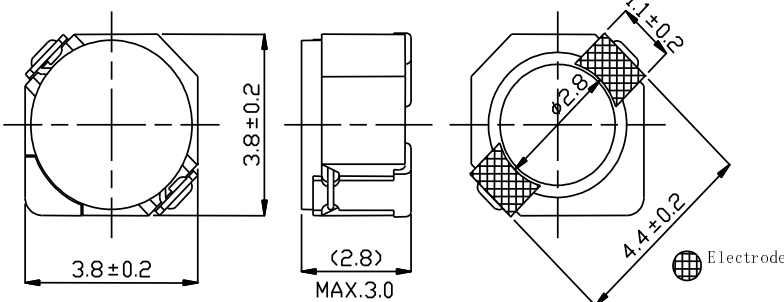
### Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 500pcs per reel

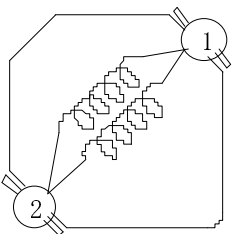
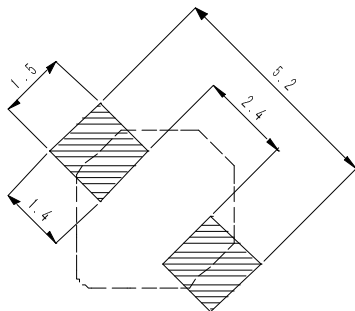
### Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, Portable DVD, etc. as DC-DC converter inductors.

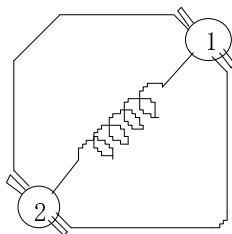
### Dimension - [mm]



### Land pattern and Schematics - [mm]



(10 μ H ~ 56 μ H)



(68 μ H ~ 220 μ H)

# SMD Power Inductor CDRH3D28/LD



## Electrical Characteristics

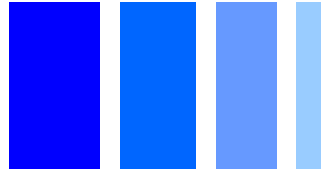
Part Name	Stamp	Inductance ( $\mu$ H) [within] ※1	D.C.R. (m $\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH3D28/LDNP-100NC	A	10 $\pm$ 30%	95(73)	0.50	0.43	1.52
CDRH3D28/LDNP-120NC	B	12 $\pm$ 30%	100(80)	0.45	0.38	1.48
CDRH3D28/LDNP-150NC	C	15 $\pm$ 30%	115(90)	0.40	0.33	1.44
CDRH3D28/LDNP-180NC	D	18 $\pm$ 30%	125(100)	0.35	0.30	1.37
CDRH3D28/LDNP-220NC	E	22 $\pm$ 30%	145(117)	0.33	0.28	1.28
CDRH3D28/LDNP-270NC	F	27 $\pm$ 30%	175(140)	0.29	0.26	1.18
CDRH3D28/LDNP-330NC	G	33 $\pm$ 30%	215(170)	0.28	0.23	1.15
CDRH3D28/LDNP-390NC	H	39 $\pm$ 30%	225(180)	0.25	0.21	1.00
CDRH3D28/LDNP-470NC	J	47 $\pm$ 30%	305(245)	0.23	0.19	0.81
CDRH3D28/LDNP-560NC	K	56 $\pm$ 30%	325(260)	0.20	0.17	0.76
CDRH3D28/LDNP-680NC	L	68 $\pm$ 30%	470(375)	0.185	0.156	0.60
CDRH3D28/LDNP-820NC	M	82 $\pm$ 30%	540(430)	0.172	0.142	0.58
CDRH3D28/LDNP-101NC	N	100 $\pm$ 30%	610(485)	0.160	0.128	0.52
CDRH3D28/LDNP-121NC	P	120 $\pm$ 30%	755(605)	0.136	0.116	0.50
CDRH3D28/LDNP-151NC	Q	150 $\pm$ 30%	880(705)	0.124	0.106	0.48
CDRH3D28/LDNP-181NC	R	180 $\pm$ 30%	1130(905)	0.119	0.095	0.42
CDRH3D28/LDNP-221NC	S	220 $\pm$ 30%	1270(1015)	0.116	0.087	0.36

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

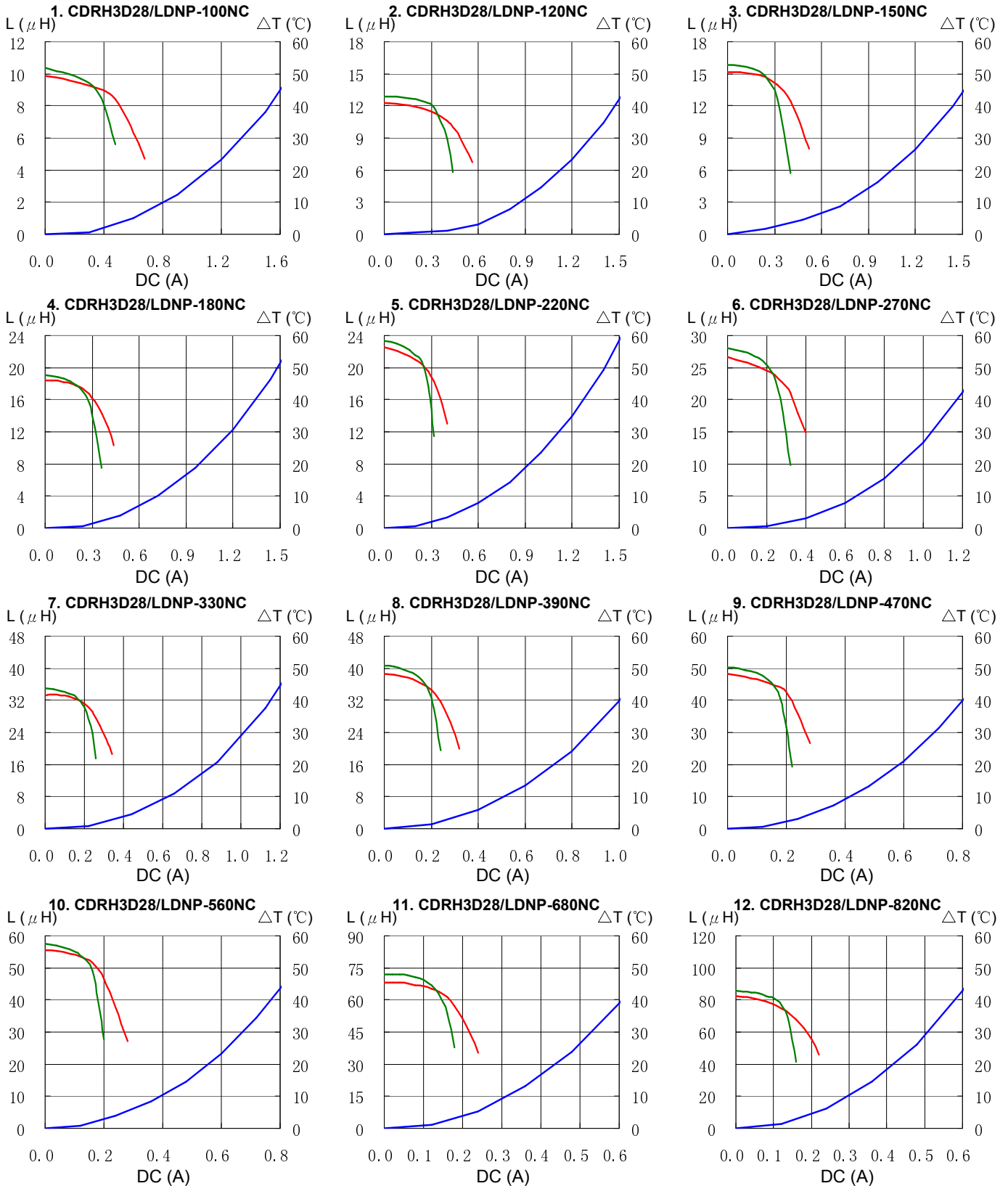
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRH3D28/LD

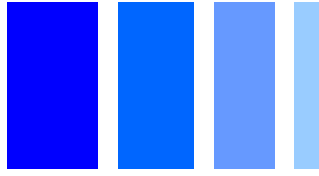


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

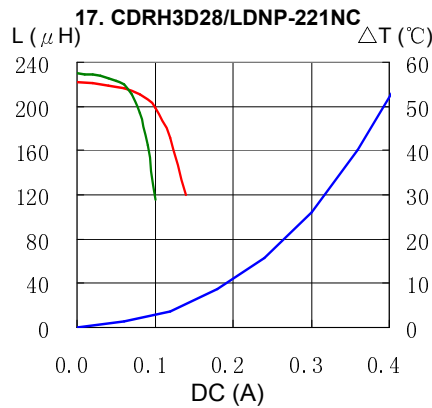
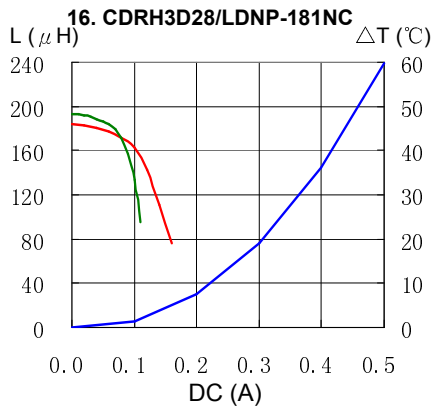
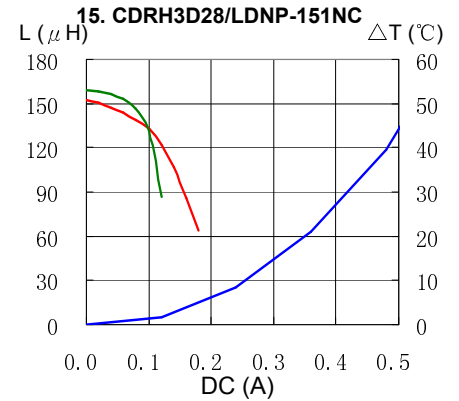
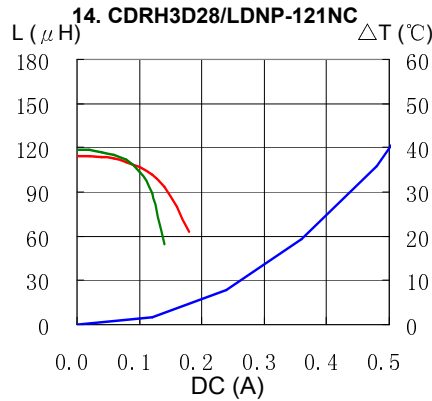
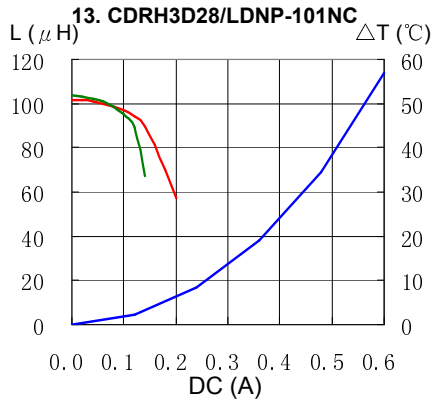


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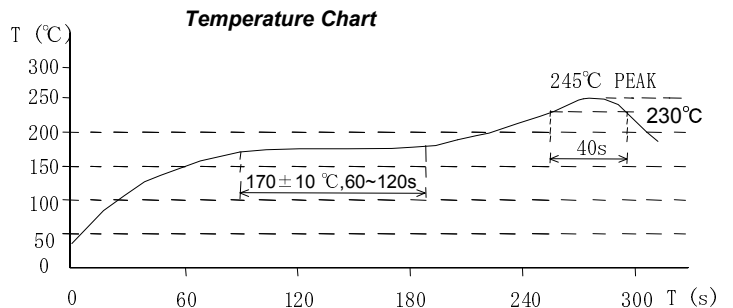
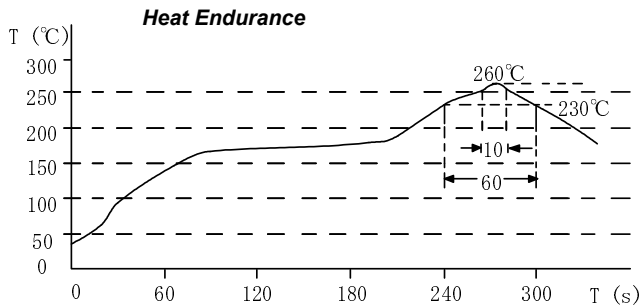


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



## Solder Reflow Condition



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

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