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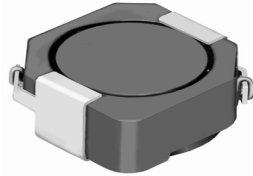
[Sumida Corporation](#)

[CDRH5D18RNP-100NC](#)

For any questions, you can email us directly:

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

# SMD Power Inductor CDRH5D18R



### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.3 × 6.2 × 2.0 mm Max.
- Product weight: 0.22g(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.

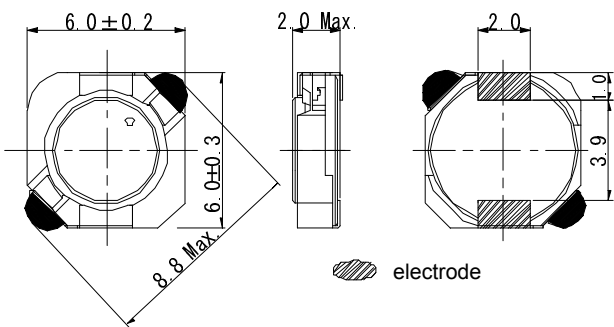
### Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 2000pcs per reel

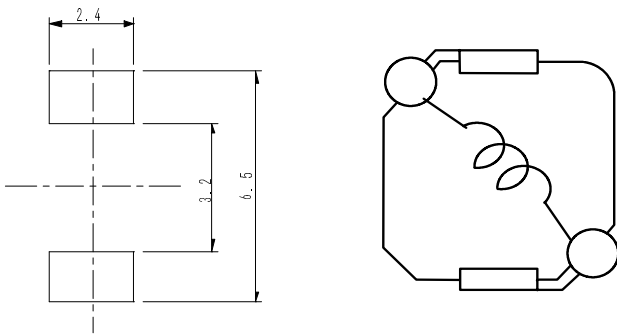
### Applications

- Ideally used in MP3, PDA, HDD, DSC/DVC, Notebook PC, etc. as DC-DC converter inductors.

### Dimension - [mm]



### Land pattern and Schematics - [mm]



# SMD Power Inductor CDRH5D18R



## Electrical Characteristics

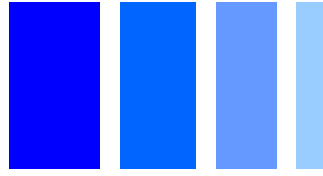
Part Name	Stamp	Inductance ( $\mu$ H) [ within ] ※1	D.C.R. (m $\Omega$ ) [Max.] (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH5D18RNP-2R2NC	2R2	2.2 $\pm$ 30%	45.0(36.0)	2.28	1.88	2.50
CDRH5D18RNP-3R3NC	3R3	3.3 $\pm$ 30%	52.5(42.0)	1.88	1.56	2.20
CDRH5D18RNP-3R9NC	3R9	3.9 $\pm$ 30%	62.5(50.0)	1.74	1.44	1.95
CDRH5D18RNP-4R7NC	4R7	4.7 $\pm$ 30%	78.5(63.0)	1.68	1.38	1.82
CDRH5D18RNP-5R6NC	5R6	5.6 $\pm$ 30%	102.5(82.0)	1.52	1.21	1.75
CDRH5D18RNP-8R2NC	8R2	8.2 $\pm$ 30%	135.0(108.0)	1.28	1.04	1.38
CDRH5D18RNP-100NC	100	10 $\pm$ 30%	143.5(115.0)	1.20	0.97	1.35
CDRH5D18RNP-120NC	120	12 $\pm$ 30%	150.0(120.0)	1.10	0.89	1.10
CDRH5D18RNP-150NC	150	15 $\pm$ 30%	181.2(145.0)	0.95	0.77	0.95
CDRH5D18RNP-180NC	180	18 $\pm$ 30%	212.5(170.0)	0.88	0.72	0.90
CDRH5D18RNP-220NC	220	22 $\pm$ 30%	290.0(225.0)	0.81	0.64	0.80

※1. Inductance measuring condition: at 100kHz.

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

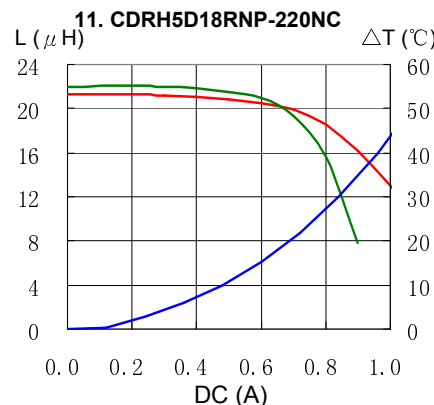
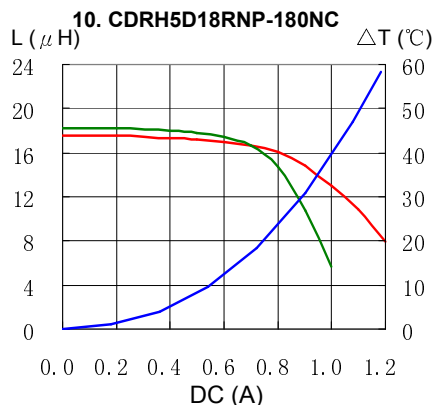
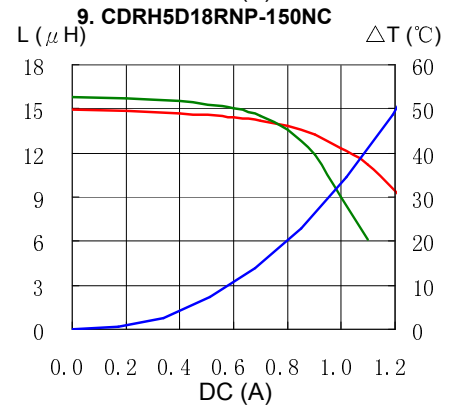
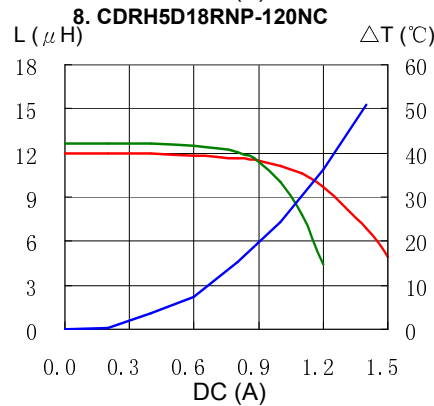
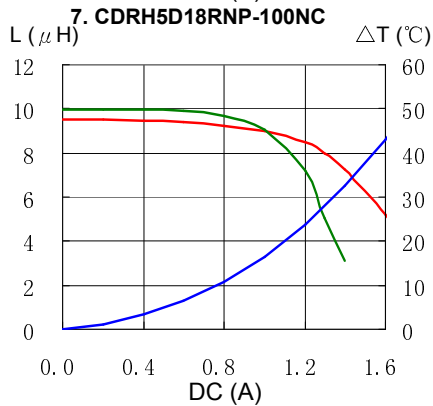
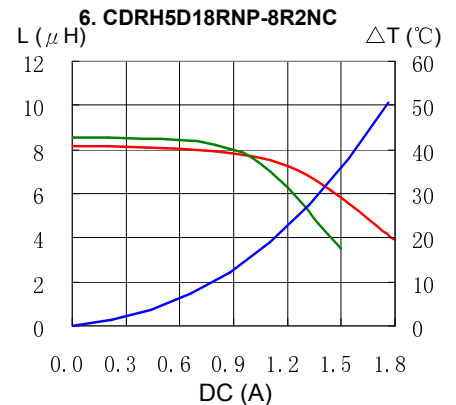
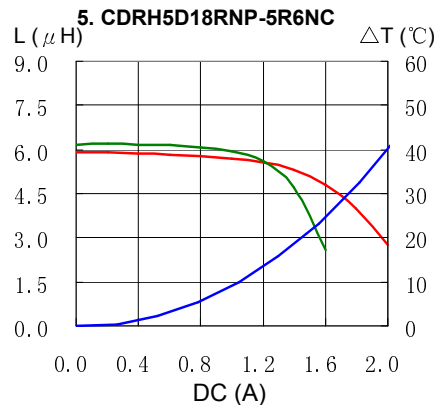
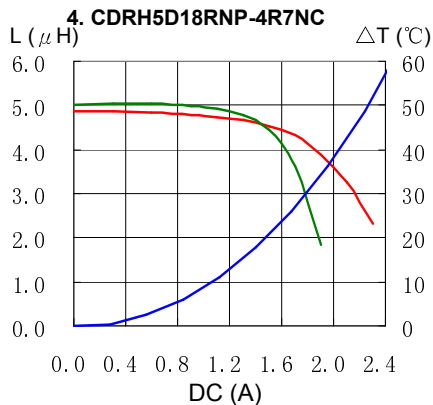
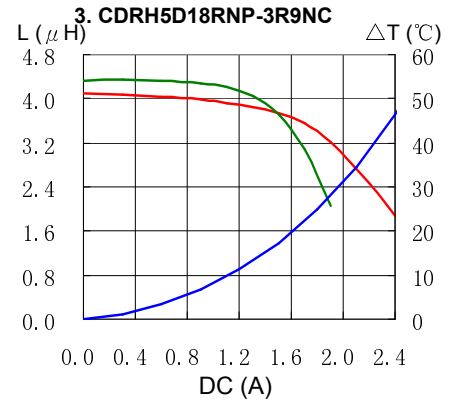
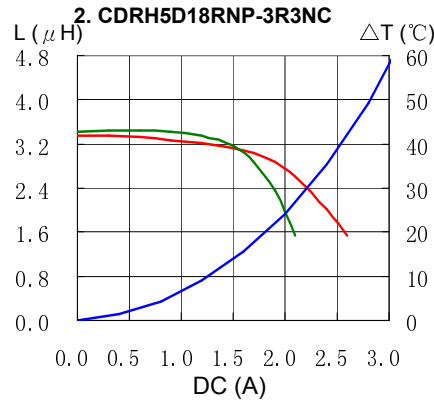
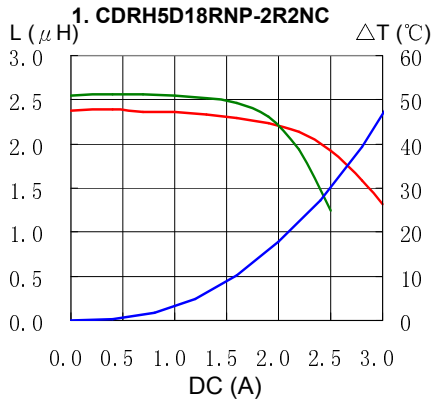
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRH5D18R



## Saturation Current & Temperature Rise Graph

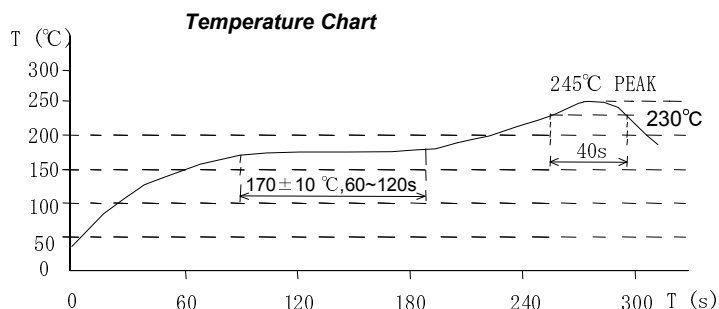
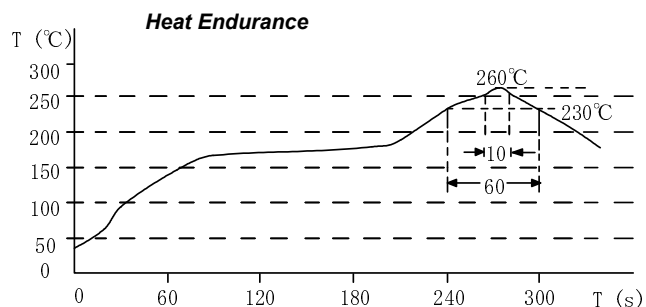
— L (20°C) — L (105°C) — ΔT



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## Solder Reflow Condition



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