

# SMD Power Inductor

## CDRH3D14



### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 1.5 mm Max.
- Product weight: 70mg(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.

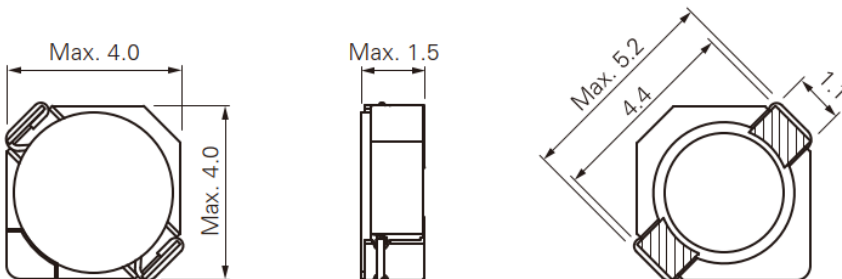
### Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1,000pcs per reel

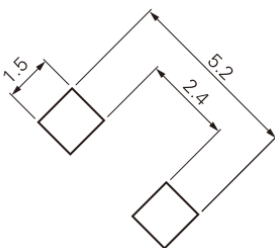
### Applications

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

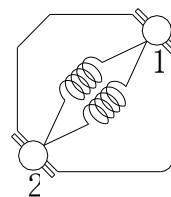
### Dimension - [mm]



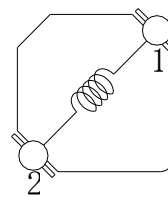
### Land patterns - [mm]



### Schematics



(1.2μH~3.3μH)



(3.9μH~22μH)

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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### Electrical Characteristics

Part Name	Inductance ( $\mu$ H) [ within ] ※1	D.C.R. (m $\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) Max. (Typ.) ※2		Temperature Rise Current (A) (Typ.) ※3
			at 20°C	at 105°C	
CDRH3D14NP-1R2NC	1.2 $\pm$ 25%	45.0 (36.0)	2.15 (2.35)	1.50 (1.65)	(2.20)
CDRH3D14NP-1R7NC	1.7 $\pm$ 25%	63.0 (50.0)	1.85 (2.02)	1.35 (1.45)	(2.00)
CDRH3D14NP-2R2NC	2.2 $\pm$ 25%	69.0 (55.0)	1.60 (1.82)	1.25 (1.32)	(1.75)
CDRH3D14NP-2R7NC	2.7 $\pm$ 25%	88.0 (70.0)	1.45 (1.65)	1.15 (1.28)	(1.36)
CDRH3D14NP-3R3NC	3.3 $\pm$ 25%	100 (80.0)	1.35 (1.45)	0.96 (1.01)	(1.24)
CDRH3D14NP-3R9NC	3.9 $\pm$ 25%	135 (110)	1.15 (1.30)	0.82 (0.89)	(1.12)
CDRH3D14NP-4R7NC	4.7 $\pm$ 25%	150 (120)	1.10 (1.16)	0.76 (0.84)	(0.96)
CDRH3D14NP-8R2NC	8.2 $\pm$ 25%	238 (190)	0.82 (0.89)	0.64 (0.66)	(0.74)
CDRH3D14NP-100NC	10 $\pm$ 25%	262 (210)	0.75 (0.83)	0.55 (0.58)	(0.69)
CDRH3D14NP-120NC	12 $\pm$ 25%	350 (280)	0.67 (0.71)	0.50 (0.52)	(0.60)
CDRH3D14NP-150NC	15 $\pm$ 25%	488 (390)	0.60 (0.68)	0.48 (0.50)	(0.58)
CDRH3D14NP-220NC	22 $\pm$ 25%	575 (460)	0.52 (0.56)	0.37 (0.39)	(0.43)

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 65% of its initial value.

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

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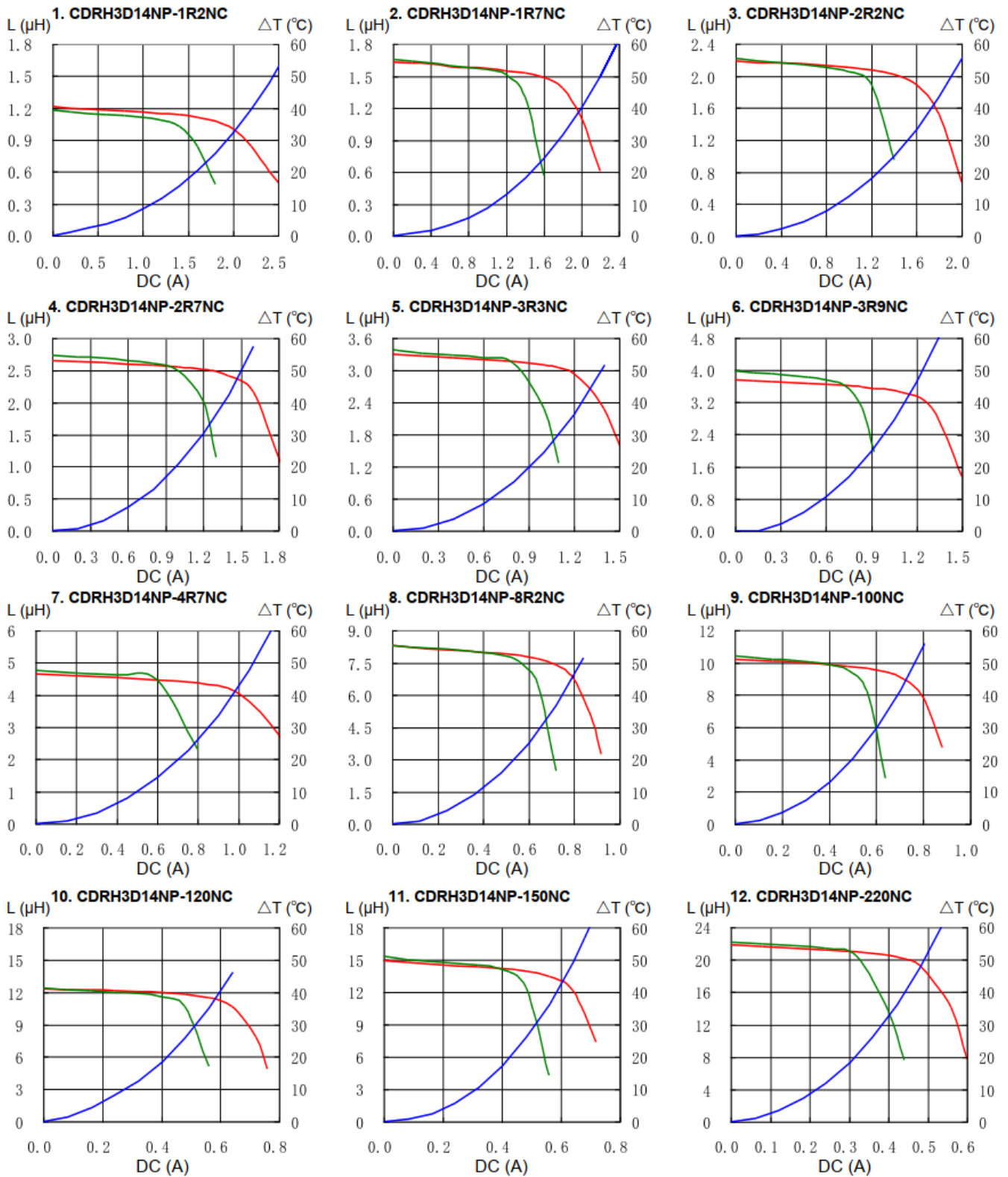
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### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

— L (100°C) —  $\Delta T$



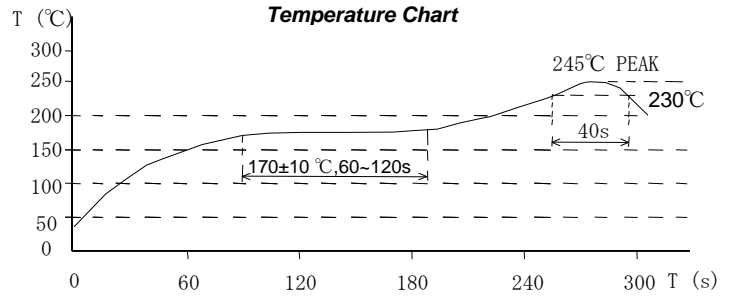
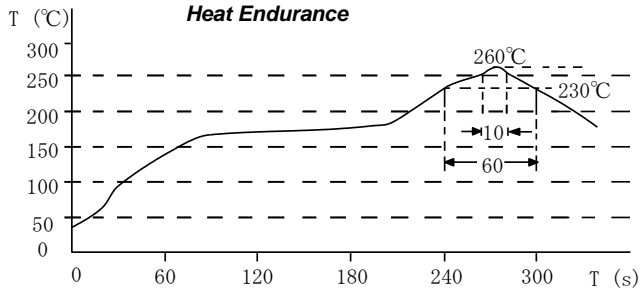
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### Solder Reflow Condition



For sales office information, please [click here](#) to visit our website.

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