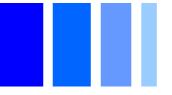
SMD Power Inductor CDRH2D14





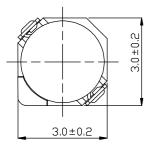


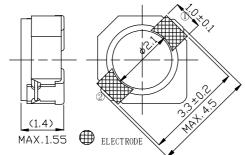


Description

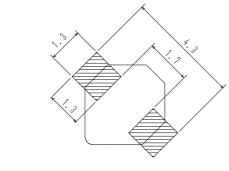
- Ferrite drum core construction.
- · Magnetically shielded.
- L \times W \times H:3.2 \times 3.2 \times 1.55mm Max.
- Product weight: 46mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

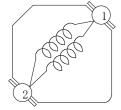
Dimension - [mm]

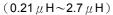


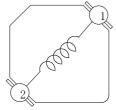


Land pattern and Schematics - [mm]









 $(3.3\,\mu\,\mathrm{H}{\sim}12\,\mu\,\mathrm{H})$

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

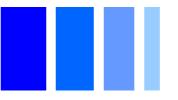
- · Carrier tape and reel packaging
- 7.0"diameter reel
- 1000pcs per reel

Applications

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

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SMD Power Inductor CDRH2D14





Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] $\%$ 1	D.C.R. (m Ω) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current
				at 20℃	at 100°C	(A) ※3
CDRH2D14NP-R21NC	N	$0.21\!\pm\!35\%$	21(16)	3.80	2.70	4.74
CDRH2D14NP-R36NC	Р	$0.36 \pm 35\%$	26(20)	3.25	2.55	4.10
CDRH2D14NP-R60NC	Q	0.60±35%	33(25)	2.20	1.75	3.45
CDRH2D14NP-R82NC	R	$0.82\!\pm\!35\%$	39(30)	2.10	1.68	2.85
CDRH2D14NP-1R2NC	S	1.2±30%	49(38)	1.95	1.35	2.75
CDRH2D14NP-1R5NC	Α	1.5±30%	63(50)	1.80	1.20	2.00
CDRH2D14NP-1R8NC	В	1.8±30%	75(60)	1.65	1.10	1.80
CDRH2D14NP-2R2NC	С	2.2±30%	94(75)	1.50	1.00	1.60
CDRH2D14NP-2R7NC	D	2.7±30%	106(85)	1.35	0.90	1.40
CDRH2D14NP-3R3NC	E	$3.3 \pm 30\%$	125(100)	1.20	0.82	1.24
CDRH2D14NP-3R9NC	F	$3.9 \pm 30\%$	138(110)	1.10	0.75	1.12
CDRH2D14NP-4R7NC	G	4.7±30%	169(135)	1.00	0.68	1.00
CDRH2D14NP-5R6NC	Н	$5.6 \pm 30\%$	188(150)	0.95	0.60	0.98
CDRH2D14NP-6R8NC	J	$6.8 \pm 30\%$	213(170)	0.85	0.56	0.92
CDRH2D14NP-8R2NC	К	8.2±30%	281(225)	0.80	0.51	0.80
CDRH2D14NP-100NC	L	10±30%	294(235)	0.70	0.46	0.76
CDRH2D14NP-120NC	М	12±30%	394(315)	0.62	0.42	0.64

^{¾1 Inductance measuring condition: at 100 kHz.}

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^{%2} Saturation current: The DC current at which the inductance decreases to 65% of it's nominal value.

³ Temperature rise current: The DC current at which the temperature rise is $\Delta T = 40^{\circ}$ C.(Ta=20°C)

SMD Power Inductor CDRH2D14





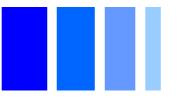
Revised: 11-Oct-16

Saturation Current & Temperature Rise Graph - L (20°C) − L (100°C) 1. CDRH2D14NP-R21NC 2. CDRH2D14NP-R36NC 3. CDRH2D14NP-R60NC L (μH) $\triangle T (\mathcal{C})$ △T (°C) L (μH) △T (°C) 0.30 60 0.6 60 1.2 60 50 0.25 50 0.5 1.0 50 0.20 40 0.4 40 0.8 40 0.15 30 0.3 30 0.6 30 20 20 0.10 0.2 0.4 20 0.05 10 0.1 10 0.2 10 0.00 0 0.0 0 0.0 6 3 4 5 $0.0 \ 0.6 \ 1.2 \ 1.8 \ 2.4 \ 3.0 \ 3.6$ DC (A) DC (A) DC (A) 4. CDRH2D14NP-R82NC 5. CDRH2D14NP-1R2NC 6. CDRH2D14NP-1R5NC L (μH) $\triangle T$ (°C) L (μH) $\triangle T$ (\mathbb{C}) △T (°C) L (μ H) 1.2 60 1.8 60 1.8 60 1.0 50 1.5 50 1.5 50 0.8 40 1.2 40 1.2 40 30 0.9 30 0.9 0.6 30 0.420 0.6 20 0.6 20 0.2 10 0.3 10 0.3 10 0.0 0.0 0.0 $0. \ 0 \ 0.5 \ 1.0 \ 1.5 \ 2.0 \ 2.5 \ 3.0$ $0. \ 0 \ 0.5 \ 1.0 \ 1.5 \ 2.0 \ 2.5 \ 3.0$ 0.5 1.0 1.5 2.0 2.5 0.0 DC (A) DC (A) DC (A) 7. CDRH2D14NP-1R8NC 8. CDRH2D14NP-2R2NC 9. CDRH2D14NP-2R7NC $\triangle T$ (°C) L (μH) △T (°C) L (μH) $\triangle T$ (°C) 2.4 3.0 60 60 3.0 60 2.0 50 2.5 50 2.5 50 40 2.0 40 1.6 2.0 40 1.2 30 30 1.5 1.5 30 20 0.8 20 1.0 20 1.0 0.4 0.5 10 10 0.5 10 0.00.0 0.4 0.4 0.00.8 1.2 1.6 $0. \ 0 \ 0.3 \ 0.6 \ 0.9 \ 1.2 \ 1.5 \ 1.8$ 0.8 1.2 DC (A) DC (A) DC (A) 11. CDRH2D14NP-3R9NC 12. CDRH2D14NP-4R7NC 10. CDRH2D14NP-3R3NC L (μH) $\triangle T$ (°C) △T (°C) L (μH) L (μH) △T (°C) 6 4.8 60 4.8 60 60 50 4.0 50 5 4.0 50 3.2 40 3.2 40 4 40 2.4 30 2.4 30 3 30 1.6 20 1.6 20 2 20 0.8 10 0.8 10 10 0.0 0 0.00 0 0.0 0.3 0.6 0.9 1.2 0.0 0.3 0.6 0.9 1.2 0.0 0.3 0.6 0.9 1.2 1.5 1.5 1.5 DC (A) DC (A) DC (A)

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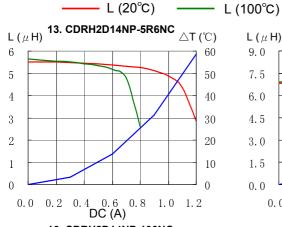
SMD Power Inductor CDRH2D14

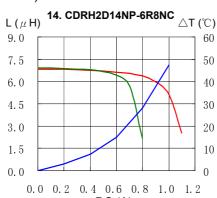
- L (20°C)

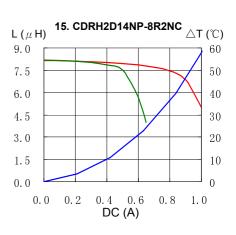


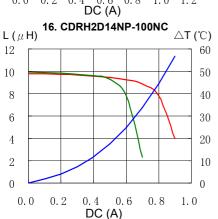


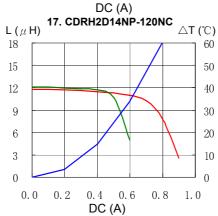
Saturation Current & Temperature Rise Graph



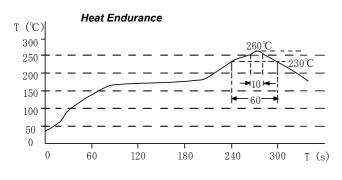


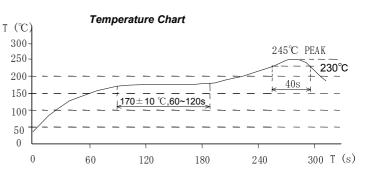






Solder Reflow Condition





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