

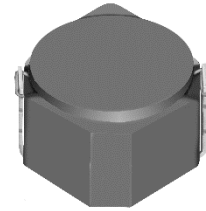
SMD Power Inductor

CDRH3D28



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 3.0 mm Max.
- Product weight: 0.2 g (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.

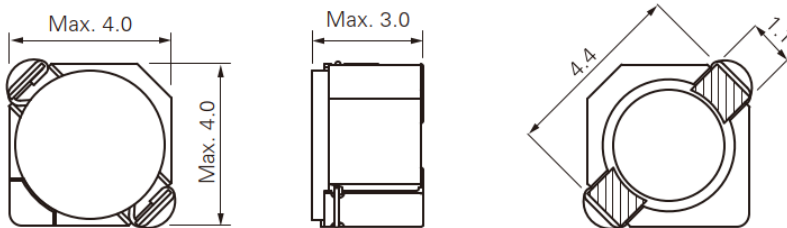
Packaging

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

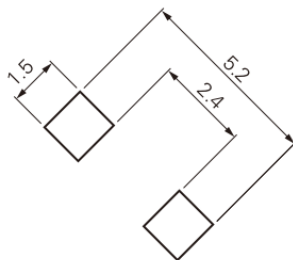
Applications

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

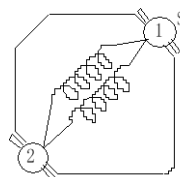
Dimension - [mm]



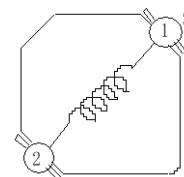
Land patterns - [mm]



Schematics



(3.3μH~15.0μH)



(22.0μH~47.0μH)

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 (μ H) [within]※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) Max. (Typ.) ※2		Temperature Rise Current (A) (Typ.) ※3
			at 20°C	at 100°C	
CDRH3D28NP-1R0NC	1.0 \pm 30%	37.5 (30.0)	3.00 (3.52)	2.40 (2.82)	(2.60)
CDRH3D28NP-3R3NC	3.3 \pm 30%	72.1 (57.7)	2.00 (2.35)	1.48 (1.75)	(1.85)
CDRH3D28NP-4R7NC	4.7 \pm 30%	88.3 (70.6)	1.65 (1.95)	1.28 (1.50)	(1.62)
CDRH3D28NP-6R8NC	6.8 \pm 30%	119 (95.0)	1.24 (1.46)	0.94 (1.10)	(1.32)
CDRH3D28NP-100NC	10 \pm 30%	145 (116)	1.05 (1.23)	0.80 (0.95)	(1.18)
CDRH3D28NP-150NC	15 \pm 30%	213 (170)	0.90 (1.05)	0.64 (0.80)	(1.02)
CDRH3D28NP-220NC	22 \pm 30%	335 (268)	0.76 (0.90)	0.55 (0.65)	(0.74)
CDRH3D28NP-330NC	33 \pm 30%	481 (385)	0.58 (0.68)	0.44 (0.52)	(0.63)
CDRH3D28NP-470NC	47 \pm 30%	599 (479)	0.48 (0.56)	0.36 (0.42)	(0.56)

※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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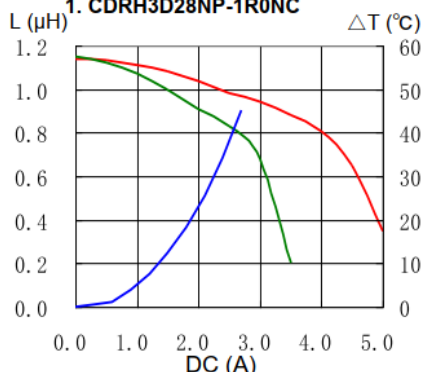
Saturation Current & Temperature Rise Graph

— L (20°C)

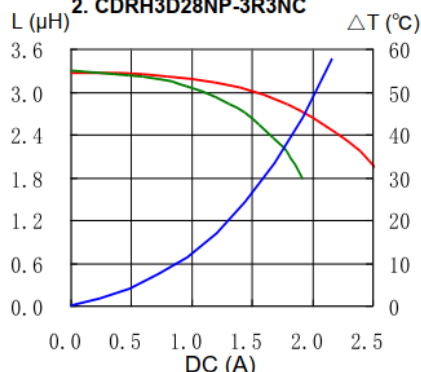
— L (100°C)

— ΔT

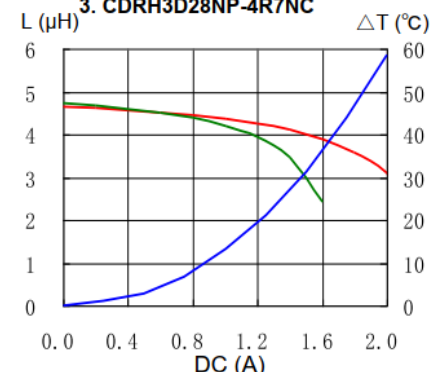
1. CDRH3D28NP-1R0NC



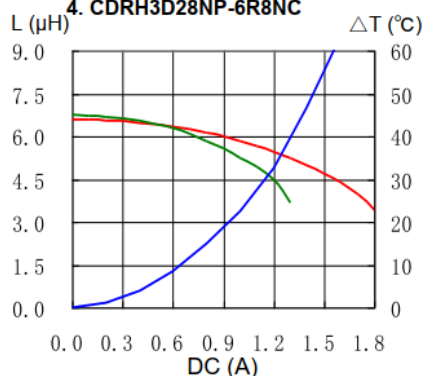
2. CDRH3D28NP-3R3NC



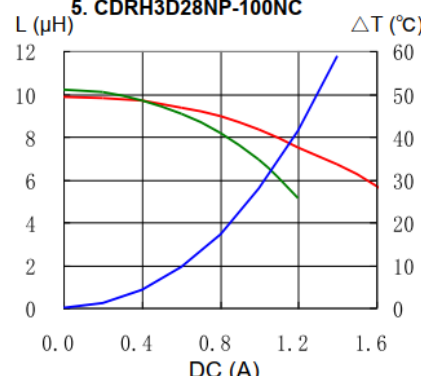
3. CDRH3D28NP-4R7NC



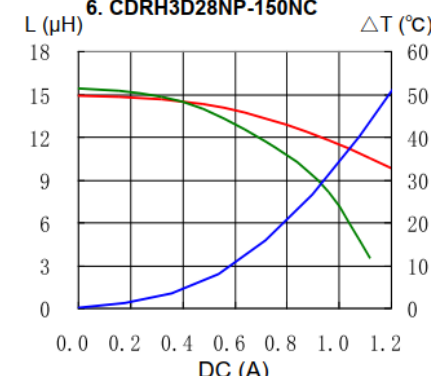
4. CDRH3D28NP-6R8NC



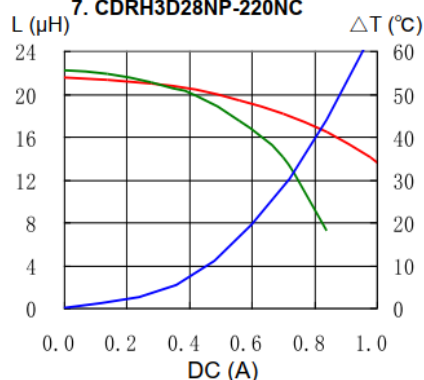
5. CDRH3D28NP-100NC



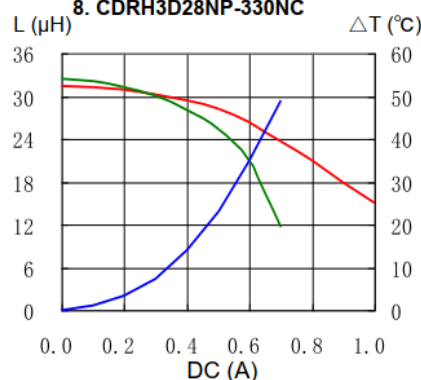
6. CDRH3D28NP-150NC



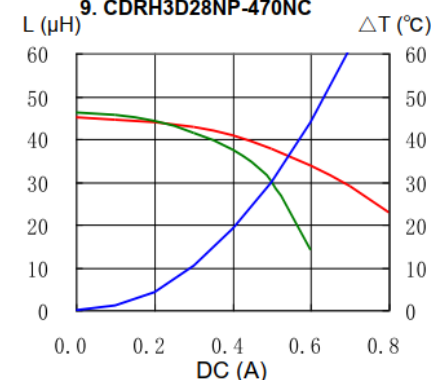
7. CDRH3D28NP-220NC



8. CDRH3D28NP-330NC



9. CDRH3D28NP-470NC



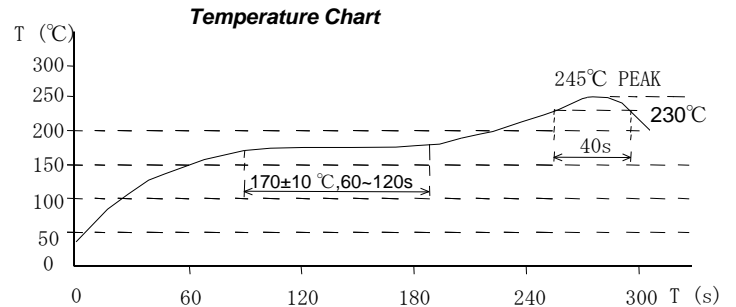
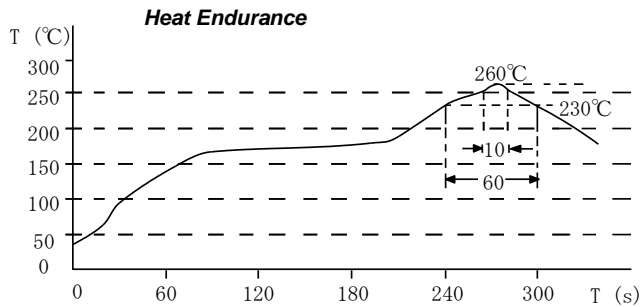
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Solder Reflow Condition



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