

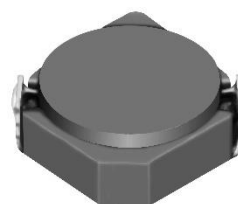
SMD Power Inductor

CDRH3D18



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 2.0 mm Max.
- Product weight: 0.09g (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.

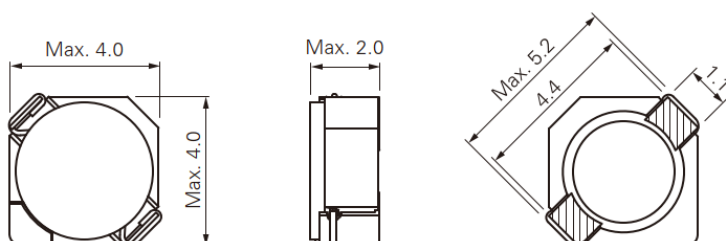
Packaging

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

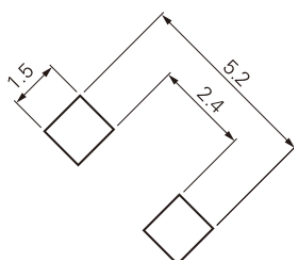
Applications

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

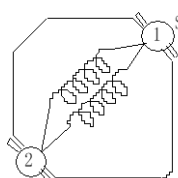
Dimension - [mm]



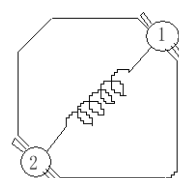
Land patterns - [mm]



Schematics



(1.0μH~6.8μH)



(10μH~47μH)

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	
CDRH3D18NP-1R0NC	1.0 $\pm$ 30%	50.0 (40.0)	2.80 (3.23)	2.00 (2.34)	(2.40)
CDRH3D18NP-2R2NC	2.2 $\pm$ 30%	63.0 (50.0)	1.80 (2.12)	1.30 (1.51)	(2.00)
CDRH3D18NP-3R0NC	3.0 $\pm$ 30%	69.0 (55.0)	1.60 (1.83)	1.20 (1.27)	(1.80)
CDRH3D18NP-4R7NC	4.7 $\pm$ 30%	108 (86.0)	1.35 (1.44)	0.95 (1.04)	(1.35)
CDRH3D18NP-6R8NC	6.8 $\pm$ 30%	150 (120)	1.10 (1.22)	0.80 (0.85)	(1.10)
CDRH3D18NP-100NC	10.0 $\pm$ 30%	205 (164)	0.90 (1.01)	0.65 (0.72)	(0.90)
CDRH3D18NP-120NC	12.0 $\pm$ 30%	275 (220)	0.80 (0.91)	0.60 (0.63)	(0.80)
CDRH3D18NP-150NC	15.0 $\pm$ 30%	302 (241)	0.75 (0.82)	0.55 (0.61)	(0.75)
CDRH3D18NP-220NC	22.0 $\pm$ 30%	424 (339)	0.60 (0.68)	0.45 (0.49)	(0.60)
CDRH3D18NP-330NC	33.0 $\pm$ 30%	640 (512)	0.50 (0.54)	0.35 (0.40)	(0.45)
CDRH3D18NP-470NC	47.0 $\pm$ 30%	964 (771)	0.40 (0.45)	0.30 (0.32)	(0.35)

※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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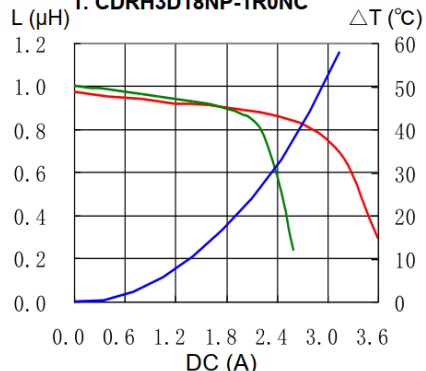
Saturation Current & Temperature Rise Graph

— L (20°C)

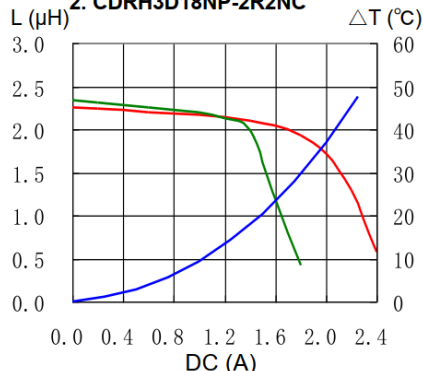
— L (100°C)

— ΔT

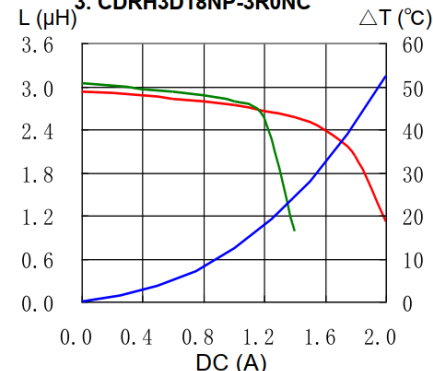
1. CDRH3D18NP-1R0NC



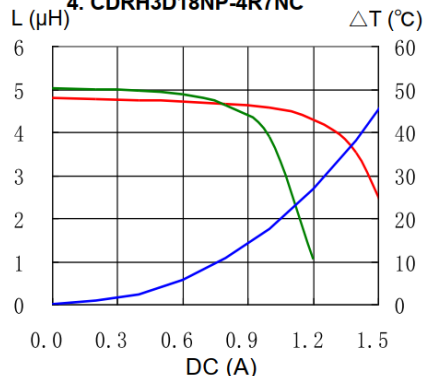
2. CDRH3D18NP-2R2NC



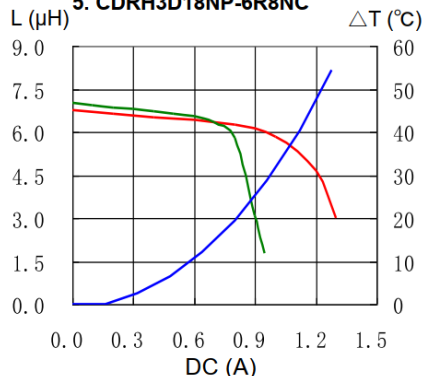
3. CDRH3D18NP-3R0NC



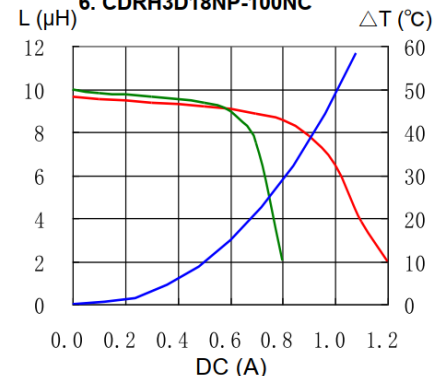
4. CDRH3D18NP-4R7NC



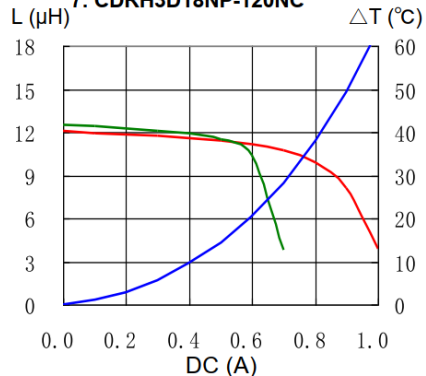
5. CDRH3D18NP-6R8NC



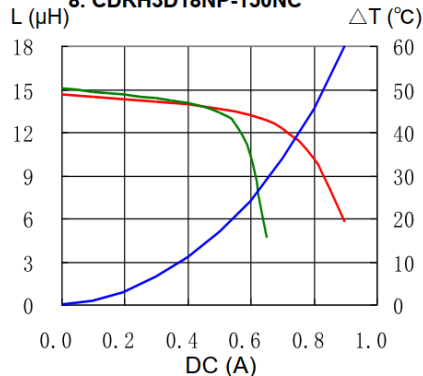
6. CDRH3D18NP-100NC



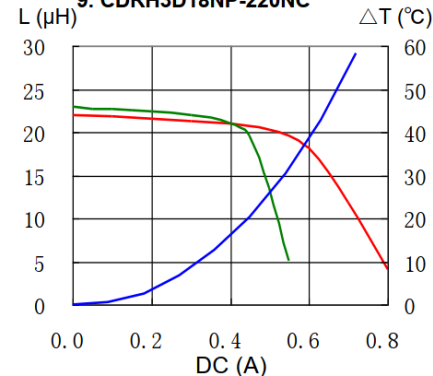
7. CDRH3D18NP-120NC



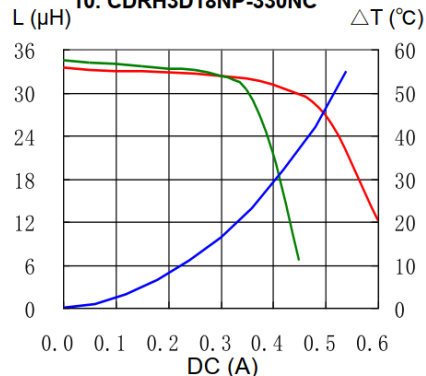
8. CDRH3D18NP-150NC



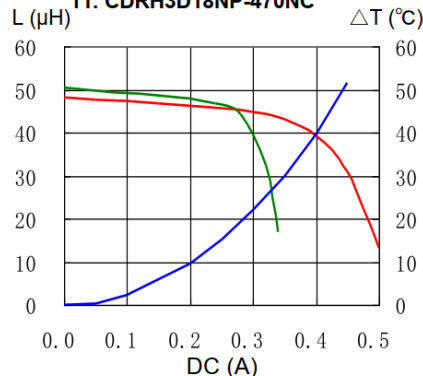
9. CDRH3D18NP-220NC



10. CDRH3D18NP-330NC



11. CDRH3D18NP-470NC



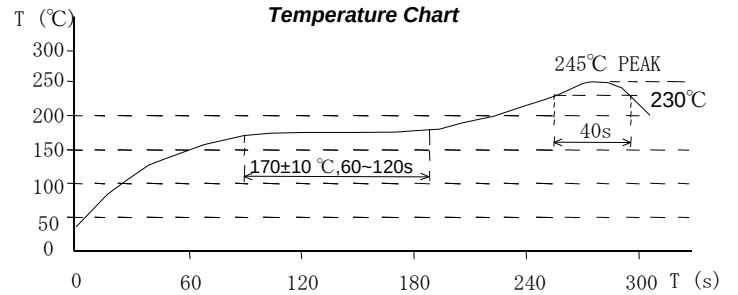
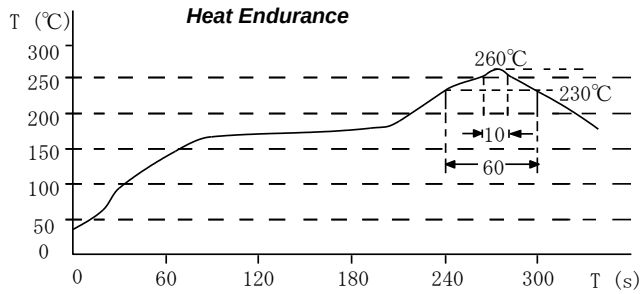
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Solder Reflow Condition



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