

SMD Power Inductor CDRH26D09



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 3.1 × 2.8 × 1.0 mm Max.
- Product weight: 25mg(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.

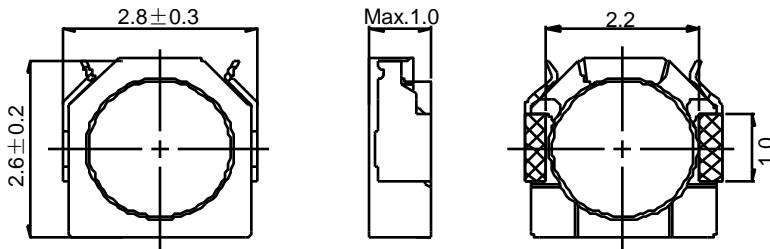
Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 3000pcs per reel

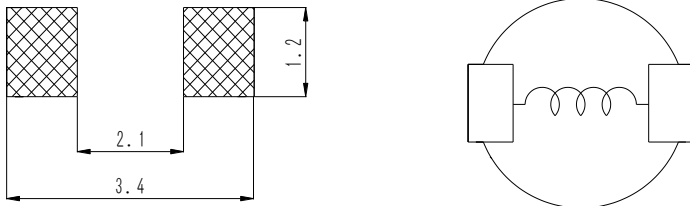
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (m Ω) Max.] (Typ.) (at 20°C)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				(at 20°C)	(at 105°C)	
CDRH26D09NP-1R2PC	A	1.2±25%	105(83.8)	1.32	1.08	1.45
CDRH26D09NP-1R5PC	B	1.5±25%	118(94.0)	1.21	1.00	1.30
CDRH26D09NP-2R2PC	C	2.2±25%	154(123)	1.05	0.88	1.00
CDRH26D09NP-3R3PC	D	3.3±25%	238(190)	0.80	0.67	0.85
CDRH26D09NP-4R7PC	E	4.7±25%	286(229)	0.66	0.56	0.72
CDRH26D09NP-6R8PC	F	6.8±25%	453(362)	0.55	0.45	0.58
CDRH26D09NP-8R2PC	G	8.2±25%	483(386)	0.50	0.42	0.54
CDRH26D09NP-100PC	H	10±25%	675(540)	0.47	0.40	0.45

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

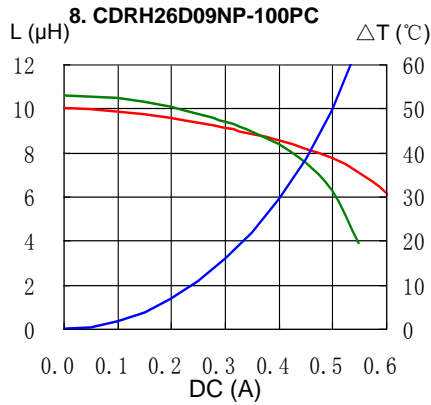
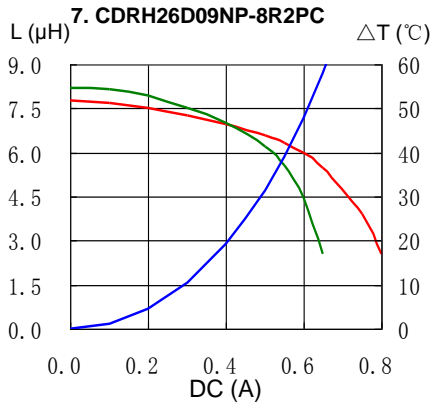
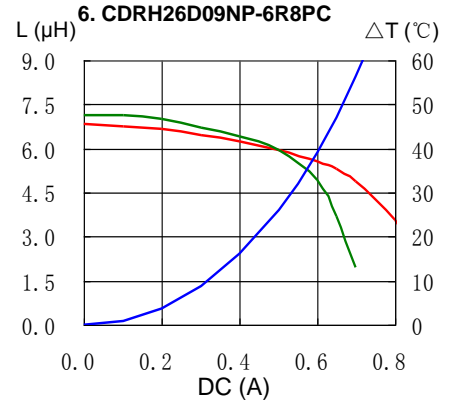
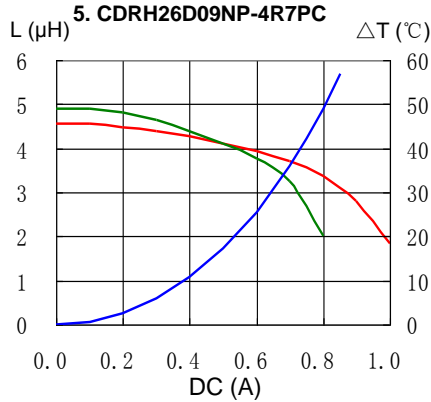
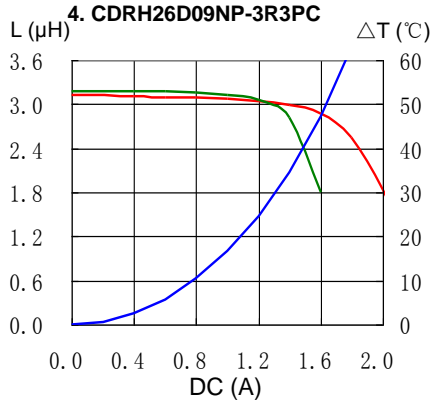
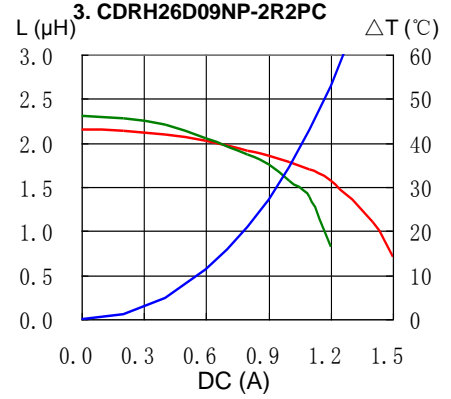
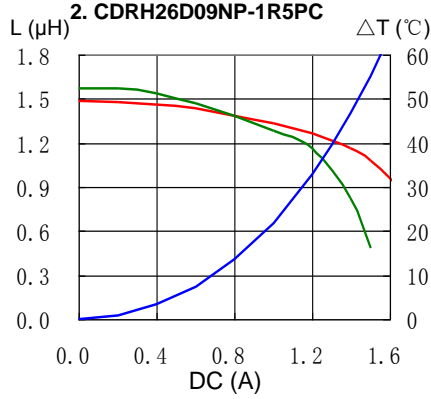
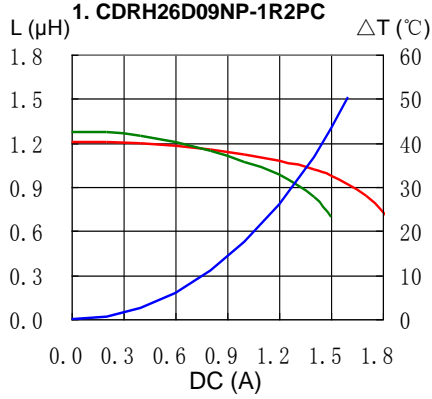
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

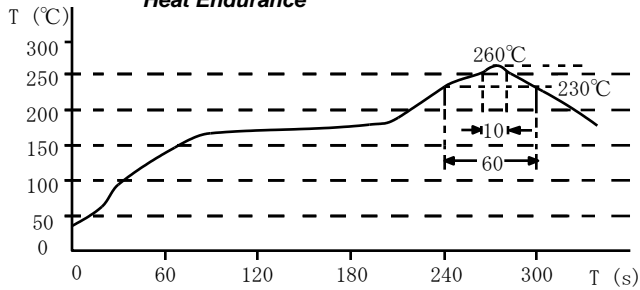


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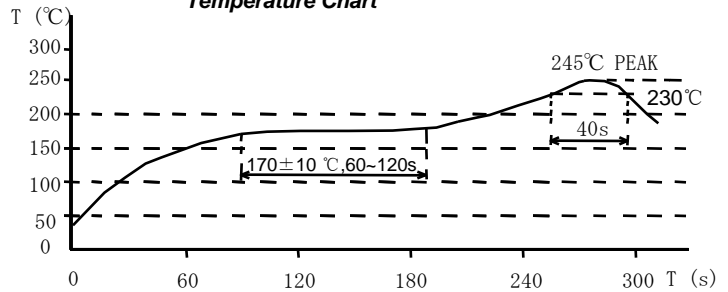


Solder Reflow Condition

Heat Endurance



Temperature Chart



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