

SMD Power Inductor CDEIR8D38F



**Halogen
Free**



Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 8.5 × 8.3 × 4.0 mm Max.
- Product weight: 1.1 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.

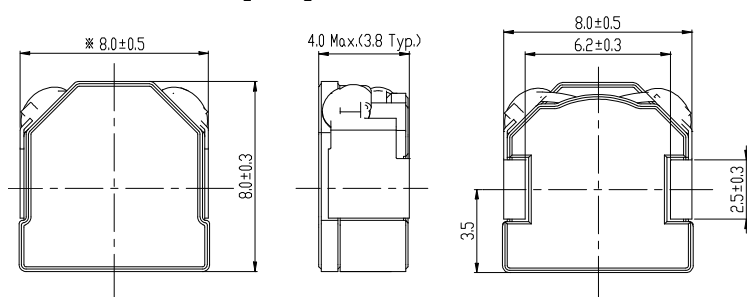
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 1000pcs per reel

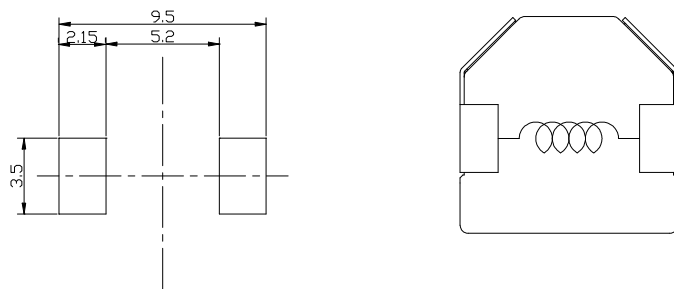
Applications

- Ideally used in Notebook, PDA and other devices.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

PART NO.	STAMP	INDUCTANCE (μH) [WITHIN] ※1	D.C.R. ($\text{m}\Omega$) [MAX.] (Typ.) (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3
				(at 20°C)	(at 105°C)	
CDEIR8D38FNP-4R0NC	4R0	$4.0 \pm 30\%$	23.2(18.5)	7.0	5.8	4.8
CDEIR8D38FNP-5R1NC	5R1	$5.1 \pm 30\%$	25.9(20.7)	6.2	5.1	4.6
CDEIR8D38FNP-6R3NC	6R3	$6.3 \pm 30\%$	30.7(24.5)	5.3	4.4	4.1
CDEIR8D38FNP-7R6NC	7R6	$7.6 \pm 30\%$	34.0(27.2)	4.9	4.1	3.8
CDEIR8D38FNP-100NC	100	$10 \pm 30\%$	43.8(35.0)	4.6	3.8	3.4
CDEIR8D38FNP-120NC	120	$12 \pm 30\%$	66.7(53.3)	4.0	3.2	2.5
CDEIR8D38FNP-150NC	150	$15 \pm 30\%$	70.2(56.1)	3.7	3.0	2.4
CDEIR8D38FNP-180NC	180	$18 \pm 30\%$	83.1(66.5)	3.3	2.7	2.3
CDEIR8D38FNP-220NC	220	$22 \pm 30\%$	88.3(70.6)	3.0	2.5	2.2

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

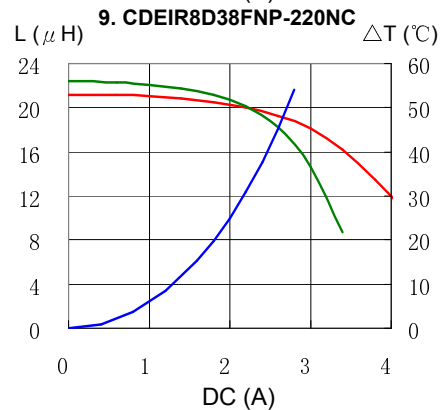
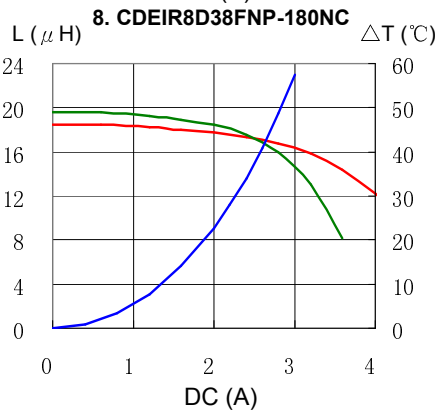
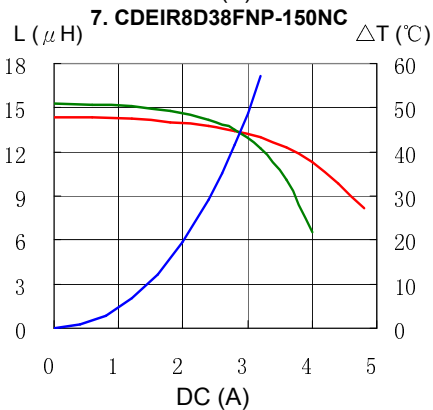
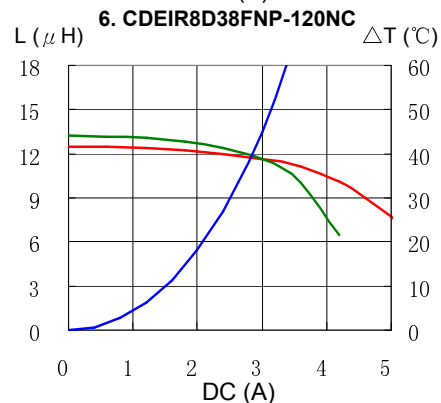
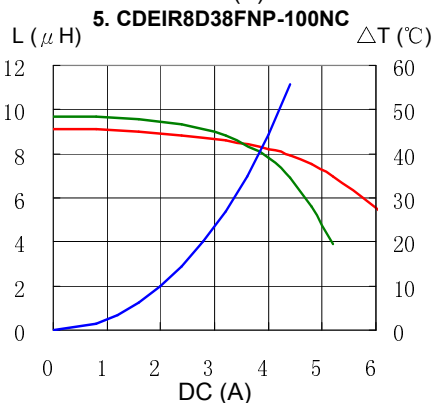
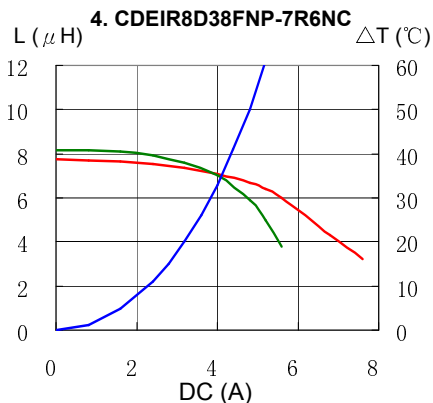
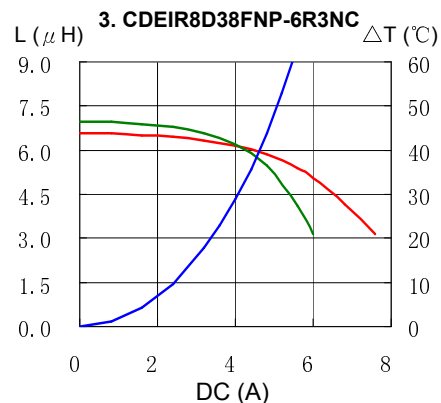
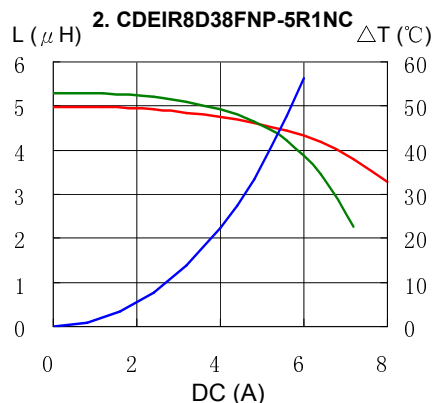
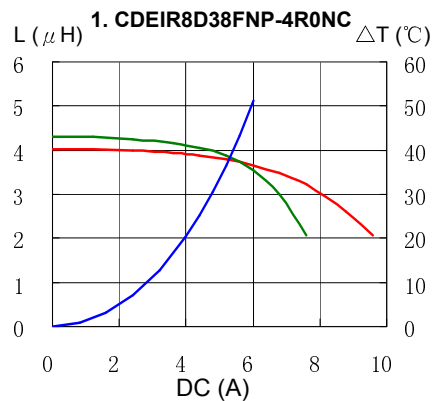
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

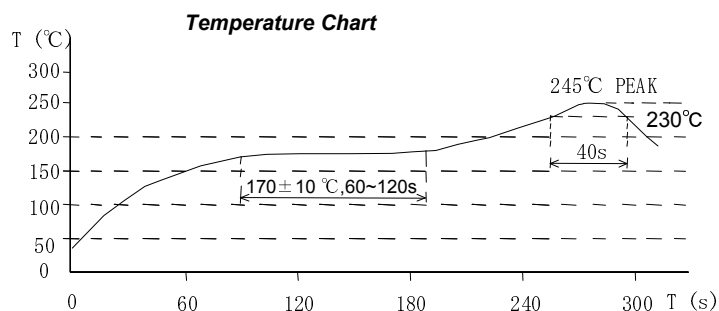
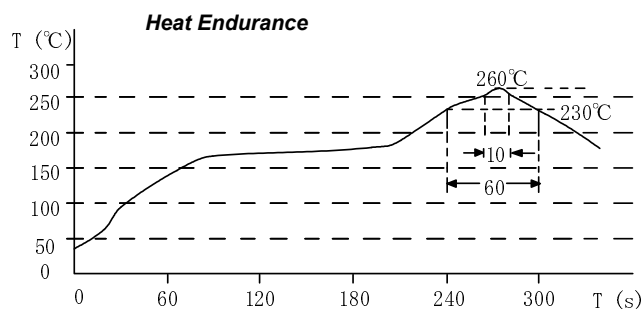
— L (20°C) — L (100°C) — ΔT



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Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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