SMD Power Inductor
CDEIR8D38F

RoHS

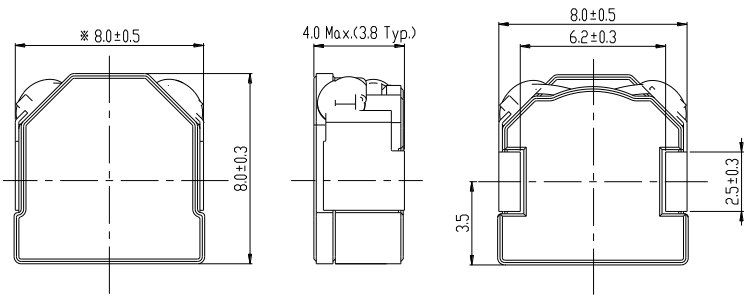
Description
- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 8.5 × 8.3 × 4.0 mm Max.
- Product weight:1.1 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -40℃～+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

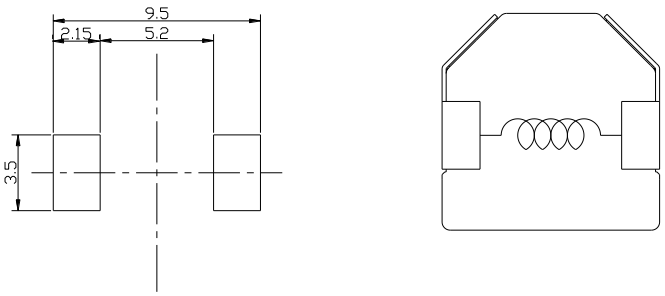
Packaging
- Carrier tape and reel packaging.
- 13.0"diameter reel
- 1000pcs per reel

Applications
- Ideally used in Notebook, PDA and other devices.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

PART NO.	STAMP	INDUCTANCE (uH) ［WITHIN］※1	D.C.R.(mΩ) [MAX.] (Typ.) (at 20℃)	SATURATION CURRENT（A）※2		TEMPERATURE RISE CURRENT（A）※3
				(at 20℃)	(at105℃)	
CDEIR8D38FNP－4RØNC	4R0	4.0±30%	23.2(18.5)	7.0	5.8	4.8
CDEIR8D38FNP－5R1NC	5R1	5.1±30%	25.9(20.7)	6.2	5.1	4.6
CDEIR8D38FNP－6R3NC	6R3	6.3±30%	30.7(24.5)	5.3	4.4	4.1
CDEIR8D38FNP－7R6NC	7R6	7.6±30%	34.0(27.2)	4.9	4.1	3.8
CDEIR8D38FNP－1ØØNC	100	10±30%	43.8(35.0)	4.6	3.8	3.4
CDEIR8D38FNP－12ØNC	120	12±30%	66.7(53.3)	4.0	3.2	2.5
CDEIR8D38FNP－15ØNC	150	15±30%	70.2(56.1)	3.7	3.0	2.4
CDEIR8D38FNP－18ØNC	180	18±30%	83.1(66.5)	3.3	2.7	2.3
CDEIR8D38FNP－22ØNC	220	22±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.

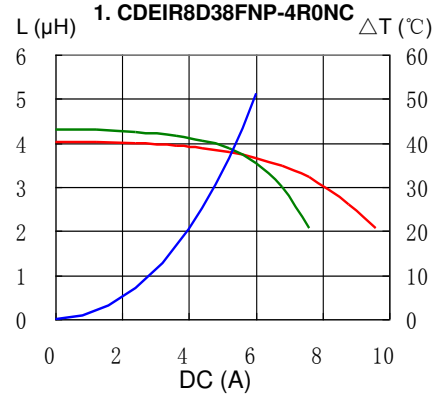
※3. Temperature rise current: The value of D.C. current when the temperature rise is △t＝40℃(Ta＝20℃).

Revised: 10-Jan-17

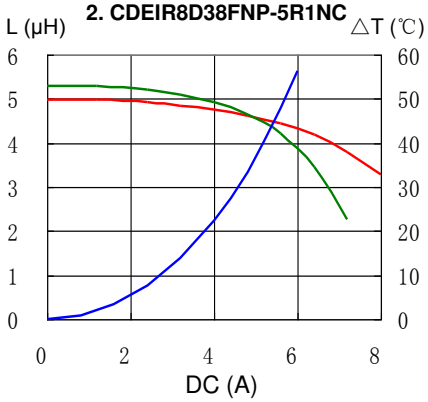
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

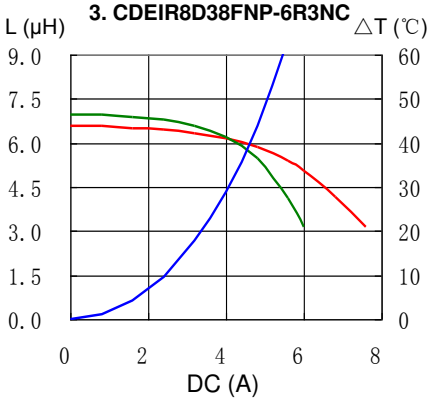
1. CDEIR8D38FNP-4R0NC



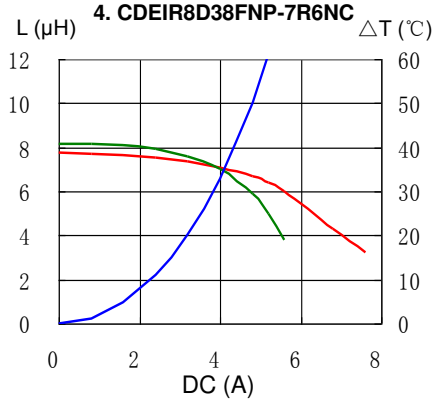
2. CDEIR8D38FNP-5R1NC



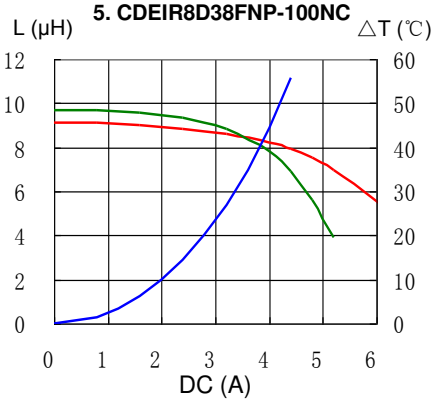
3. CDEIR8D38FNP-6R3NC



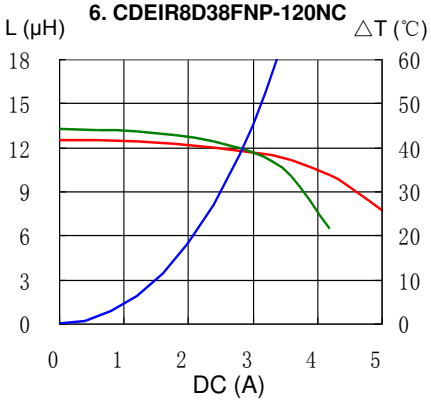
4. CDEIR8D38FNP-7R6NC



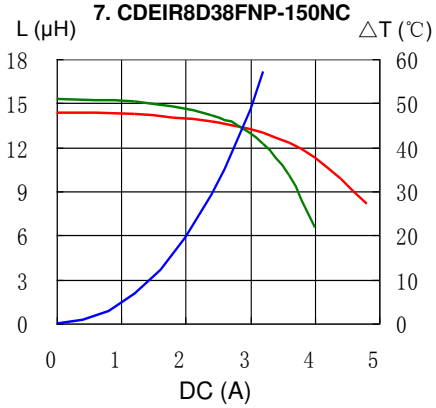
5. CDEIR8D38FNP-100NC



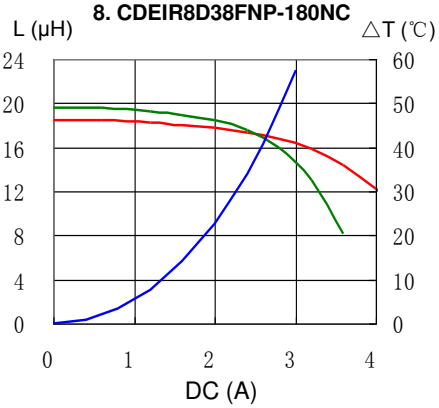
6. CDEIR8D38FNP-120NC



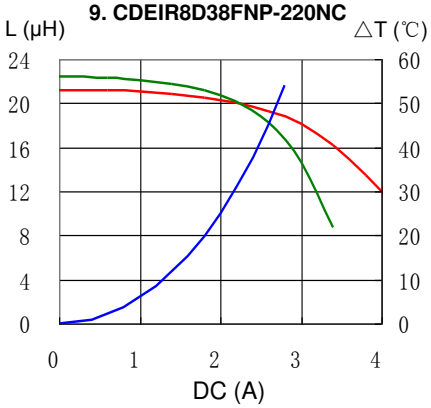
7. CDEIR8D38FNP-150NC



8. CDEIR8D38FNP-180NC

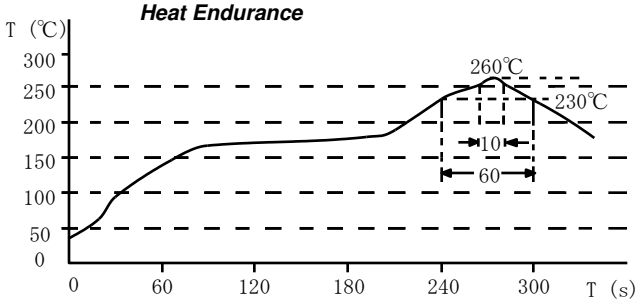


9. CDEIR8D38FNP-220NC

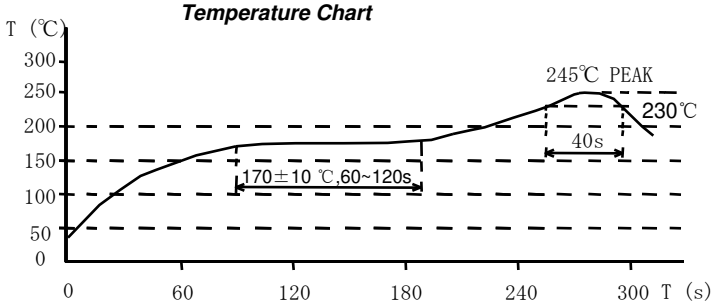


Solder Reflow Condition

Heat Endurance



Temperature Chart



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