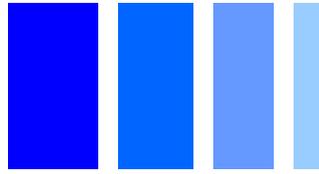


SMD Power Inductor CDRH80D38D



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.3 × 8.3 × 4.0 mm Max.
- Product weight: 1.0g(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.

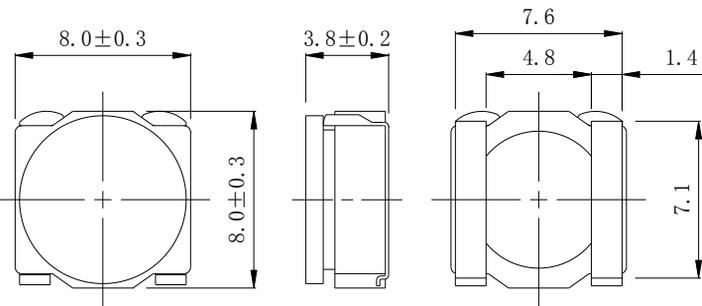
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 1000pcs per reel

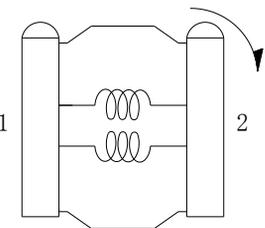
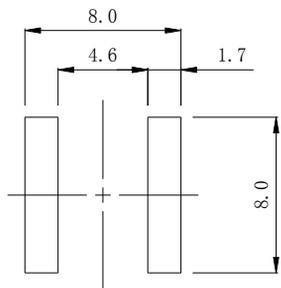
Applications

- Ideally used in Game machine, Notebook PC, DVD/DVC, LCD TV, STB, etc as DC-DC converter inductors.

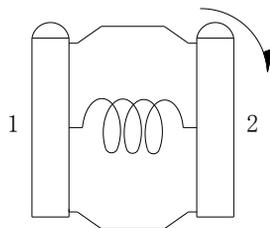
Dimension - [mm]



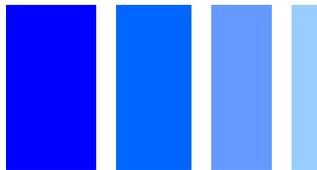
Land pattern and Schematics - [mm]



(1.0μH ~ 6.8μH)



(10μH ~ 220μH)



Electrical Characteristics

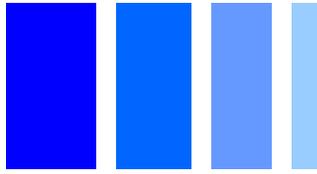
Part No.	Stamp	Inductance (μ H) [Within] ※1	D.C.R. (m Ω) [Within] (at 20°C)	Saturation current (A) ※2		Temperature rise current(A) ※3
				(at 20°C)	(at 105°C)	
CDRH80D38DNP-1R0PC	1R0	1.0 \pm 25%	7.0 \pm 25%	11.55	9.50	9.30
CDRH80D38DNP-1R5PC	1R5	1.5 \pm 25%	9.0 \pm 25%	9.35	7.95	7.70
CDRH80D38DNP-2R2PC	2R2	2.2 \pm 25%	10 \pm 25%	7.80	6.60	6.90
CDRH80D38DNP-3R3PC	3R3	3.3 \pm 25%	13 \pm 25%	6.30	5.25	6.30
CDRH80D38DNP-4R7PC	4R7	4.7 \pm 25%	16 \pm 25%	5.20	4.30	5.60
CDRH80D38DNP-6R8MC	6R8	6.8 \pm 20%	26 \pm 25%	4.25	3.70	4.10
CDRH80D38DNP-100MC	100	10 \pm 20%	35 \pm 25%	3.65	3.10	3.50
CDRH80D38DNP-150MC	150	15 \pm 20%	47 \pm 25%	2.95	2.40	3.00
CDRH80D38DNP-220MC	220	22 \pm 20%	65 \pm 25%	2.40	2.10	2.60
CDRH80D38DNP-330MC	330	33 \pm 20%	105 \pm 20%	1.95	1.60	2.00
CDRH80D38DNP-470MC	470	47 \pm 20%	160 \pm 20%	1.60	1.40	1.50
CDRH80D38DNP-680MC	680	68 \pm 20%	245 \pm 20%	1.35	1.10	1.22
CDRH80D38DNP-101MC	101	100 \pm 20%	310 \pm 20%	1.15	0.95	1.09
CDRH80D38DNP-151MC	151	150 \pm 20%	470 \pm 20%	0.95	0.75	0.88
CDRH80D38DNP-221MC	221	220 \pm 20%	705 \pm 20%	0.75	0.60	0.70

※1. Measuring condition: at 100kHz.

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

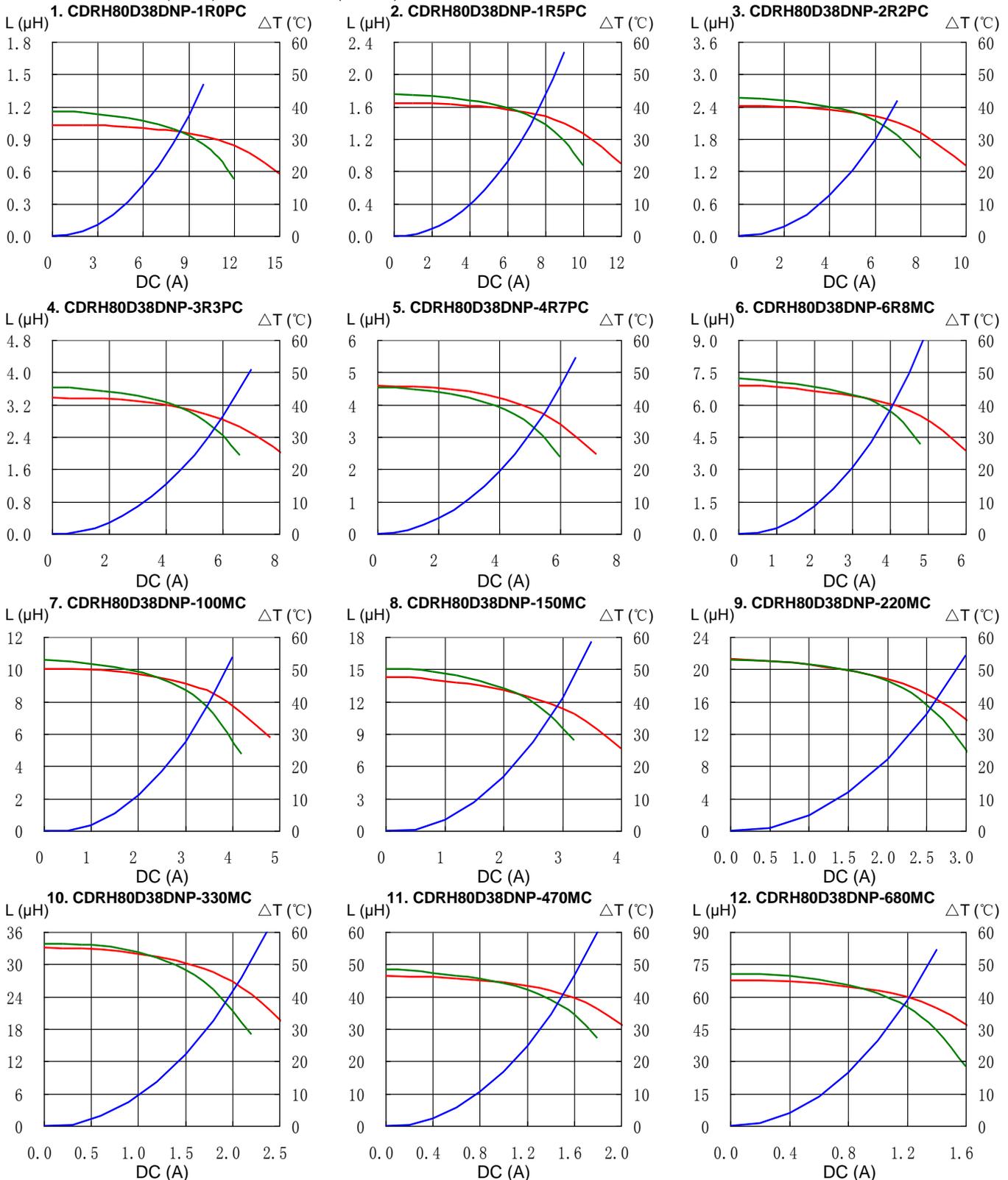
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH80D38D

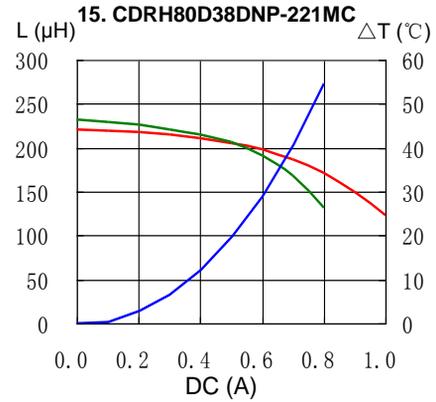
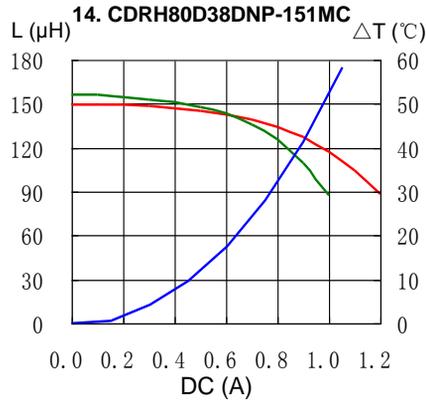
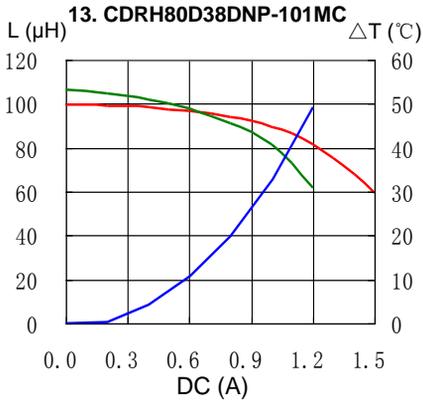
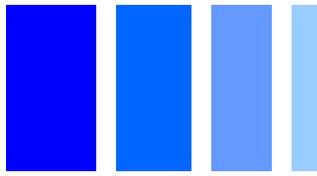


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

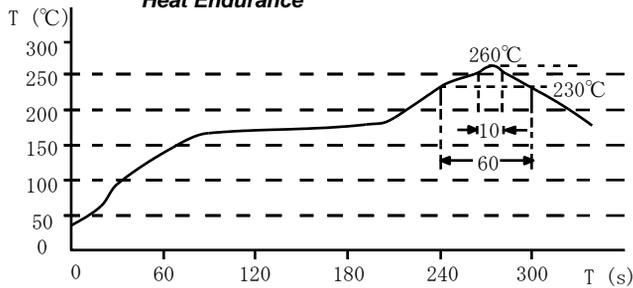


SMD Power Inductor CDRH80D38D

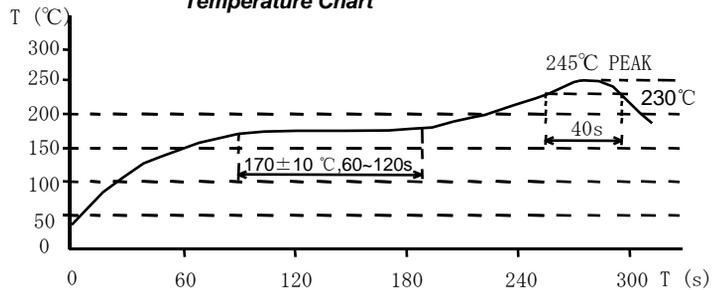


Solder Reflow Condition

Heat Endurance



Temperature Chart



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