

SMD Power Inductor CDRH80D38DMN



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Under Development



**Halogen
Free**



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.
- Halogen Free available.

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.

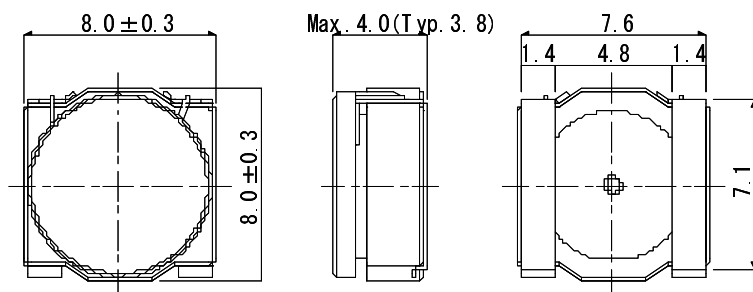
Packaging

- Carrier tape and reel packaging

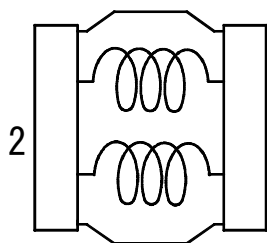
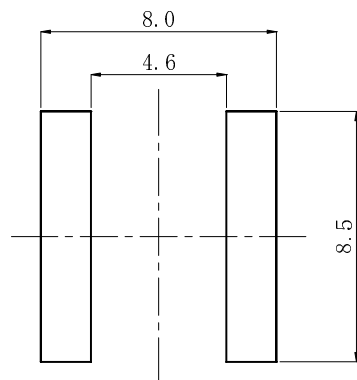
Applications

- Ideally used in Notebook PC.

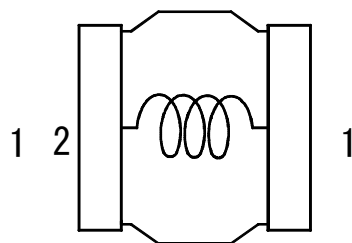
Dimension - [mm]



Land pattern and Schematics - [mm]

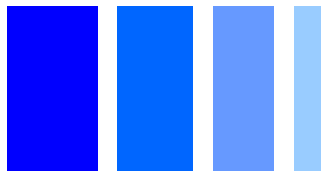


(1.0 μ ~ 6.8 μ H)



(10 μ ~ 220 μ H)

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Electrical Characteristics

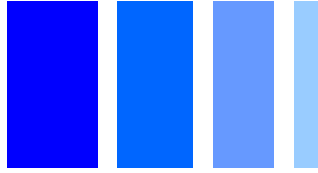
PART No.	STAMP	INDUCTANCE (μ H) [WITHIN] ※ 1	D.C.R.(m Ω) [WITHIN] (at 20°C)	Saturation Current (A) ※ 2		Temperature Rise Current (A) ※ 3 $\Delta T=40^{\circ}\text{C}$
				(at 20°C)	(at 105°C)	
CDRH80D38DMNNP-1R0PC	1R0	$1.0 \pm 25\%$	$7 \pm 25\%$	11.5	9.2	8.7
CDRH80D38DMNNP-1R5PC	1R5	$1.5 \pm 25\%$	$9 \pm 25\%$	9.6	7.6	7.8
CDRH80D38DMNNP-2R2PC	2R2	$2.2 \pm 25\%$	$10 \pm 25\%$	8.4	6.5	7.0
CDRH80D38DMNNP-3R3PC	3R3	$3.3 \pm 25\%$	$12 \pm 25\%$	6.9	5.4	6.1
CDRH80D38DMNNP-4R7PC	4R7	$4.7 \pm 25\%$	$15 \pm 25\%$	6.0	4.5	5.0
CDRH80D38DMNNP-6R8MC	6R8	$6.8 \pm 20\%$	$25 \pm 25\%$	4.8	3.6	4.0
CDRH80D38DMNNP-100MC	100	$10 \pm 20\%$	$33 \pm 25\%$	3.9	3.0	3.3
CDRH80D38DMNNP-150MC	150	$15 \pm 20\%$	$45 \pm 25\%$	3.2	2.5	2.6
CDRH80D38DMNNP-220MC	220	$22 \pm 20\%$	$83 \pm 25\%$	2.6	2.0	1.90
CDRH80D38DMNNP-330MC	330	$33 \pm 20\%$	$130 \pm 20\%$	2.1	1.60	1.50
CDRH80D38DMNNP-470MC	470	$47 \pm 20\%$	$155 \pm 20\%$	1.75	1.35	1.35
CDRH80D38DMNNP-680MC	680	$68 \pm 20\%$	$235 \pm 20\%$	1.45	1.15	1.07
CDRH80D38DMNNP-101MC	101	$100 \pm 20\%$	$305 \pm 20\%$	1.25	0.97	0.98
CDRH80D38DMNNP-151MC	151	$150 \pm 20\%$	$455 \pm 20\%$	1.04	0.79	0.80
CDRH80D38DMNNP-221MC	221	$220 \pm 20\%$	$715 \pm 20\%$	0.85	0.64	0.61

※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 $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

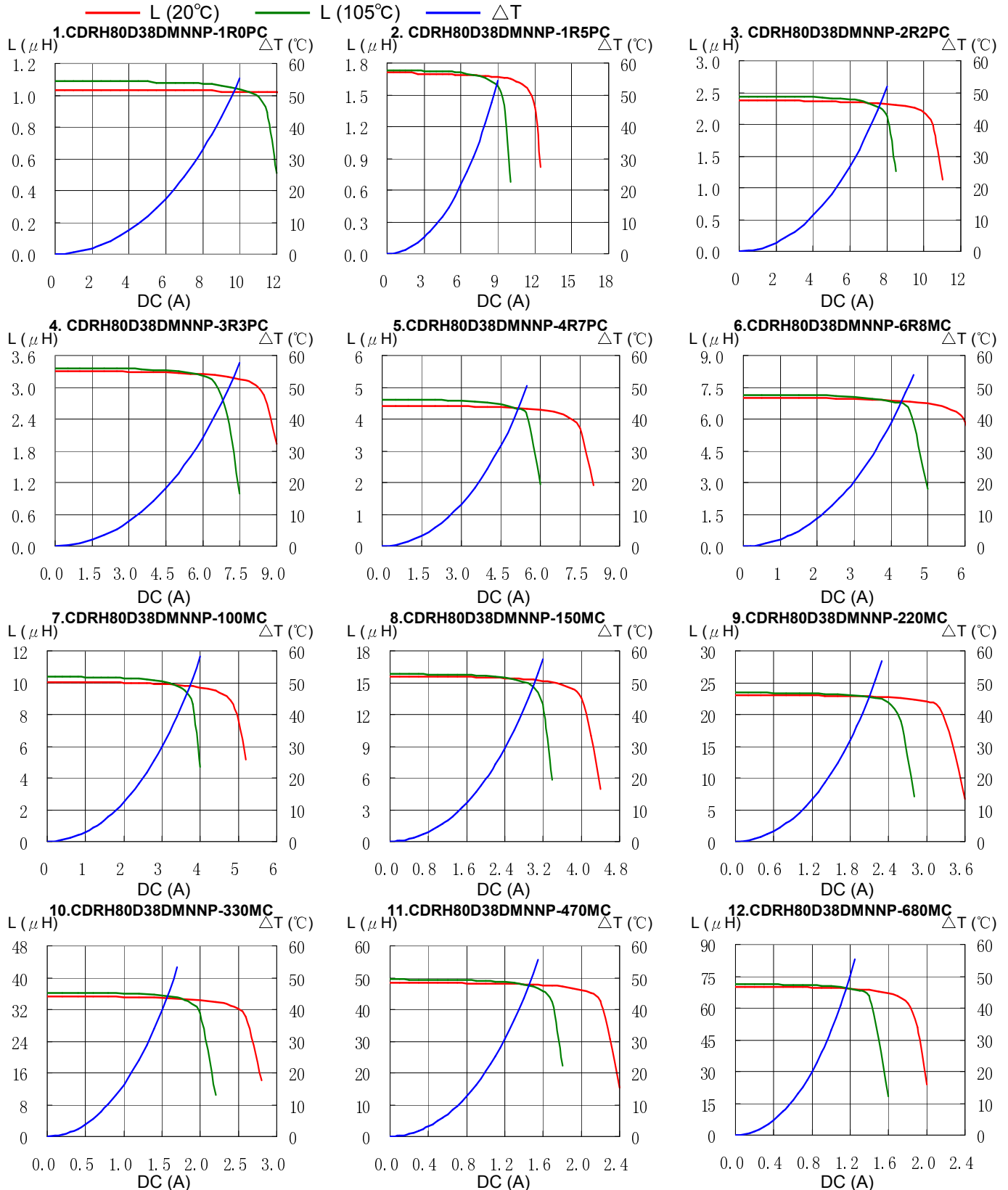
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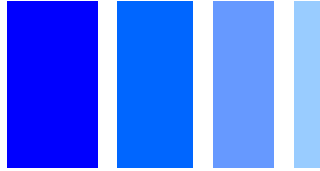
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Saturation Current & Temperature Rise Graph

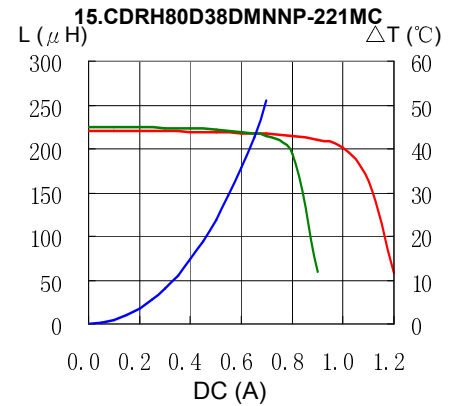
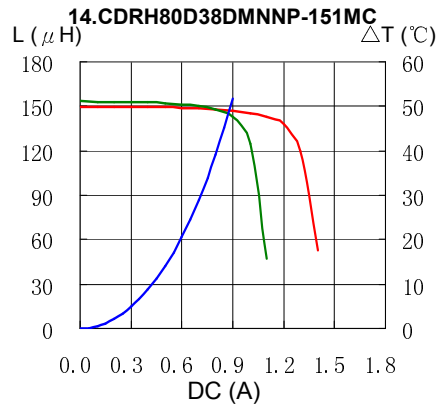
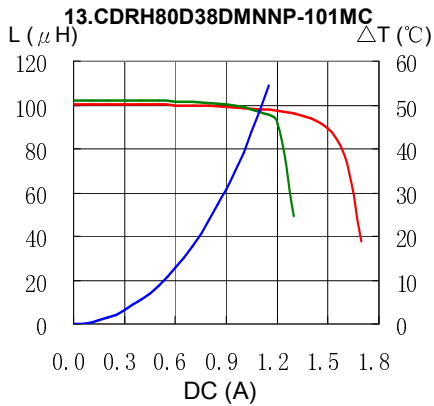


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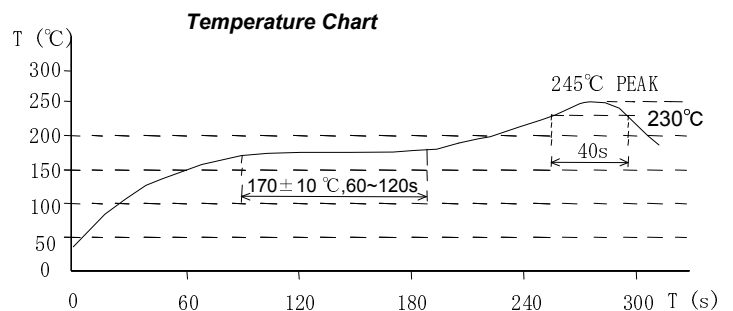
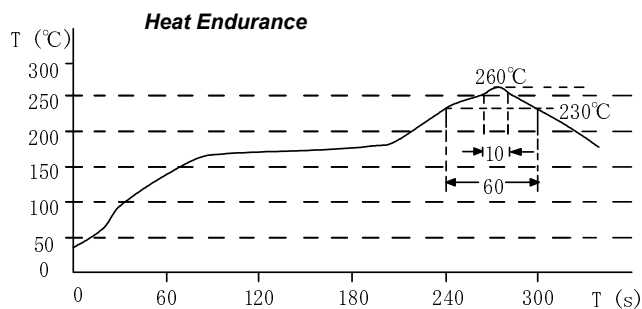


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Solder Reflow Condition



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