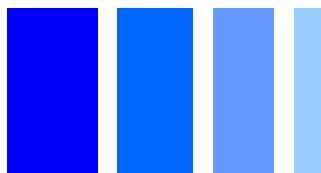


SMD Power Inductor CDRH98D23R



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**Halogen
Free**



Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 10.0 × 10.0 × 2.5 mm Max.
- Product weight: 0.9g(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.

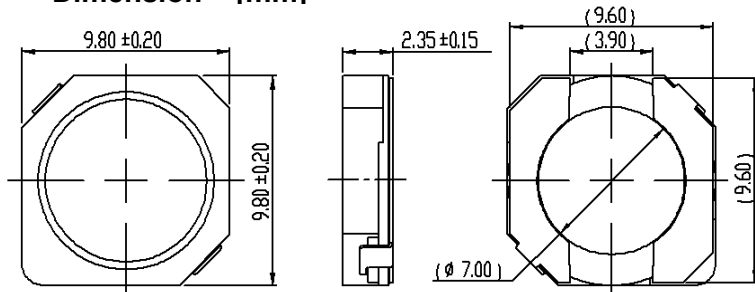
Packaging

- Carrier tape and reel packaging

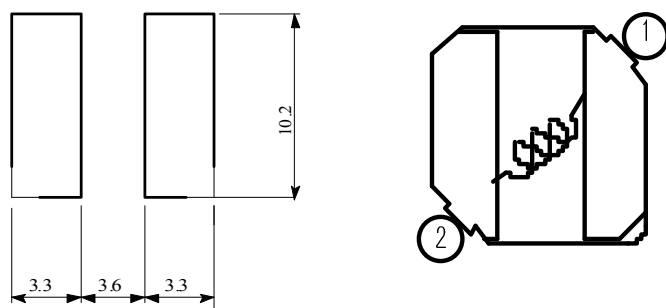
Applications

- Ideally used in backlight LED drive circuit of slim-type display etc.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [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)	
CDRH98D23RNP-3R9MC	3R9	3.9 μ H $\pm$ 20%	33.8(27)	4.5	3.9	4.0
CDRH98D23RNP-6R8MC	6R8	6.8 μ H $\pm$ 20%	50(40)	3.5	3.1	3.1
CDRH98D23RNP-100MC	100	10.0 μ H $\pm$ 20%	80(64)	3.1	2.6	2.5
CDRH98D23RNP-150MC	150	15.0 μ H $\pm$ 20%	97.5(78)	2.6	2.2	2.2
CDRH98D23RNP-220MC	220	22.0 μ H $\pm$ 20%	157(125.5)	2.1	1.8	1.65
CDRH98D23RNP-330MC	330	33.0 μ H $\pm$ 20%	233(186.5)	1.75	1.45	1.35
CDRH98D23RNP-470MC	470	47.0 μ H $\pm$ 20%	293(234.5)	1.45	1.2	1.25

※1 Inductance measuring condition : at 100kHz .

※2 Saturation current: The value of DC current when the inductance decreases to 70% of its nominal.

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

SMD Power Inductor CDRH98D23R

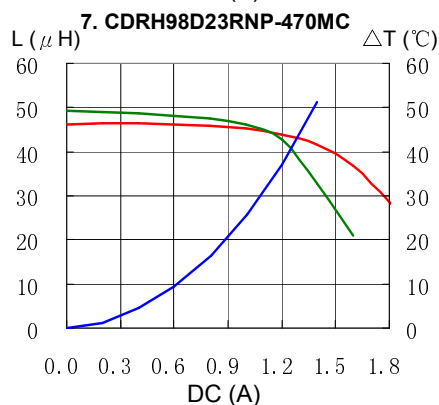
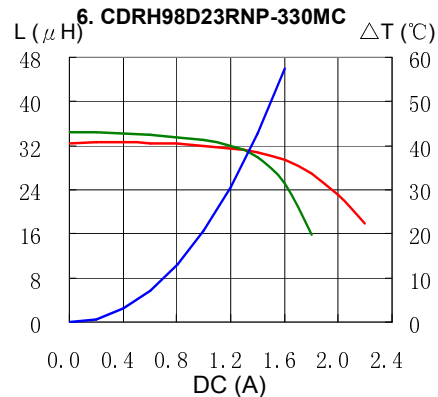
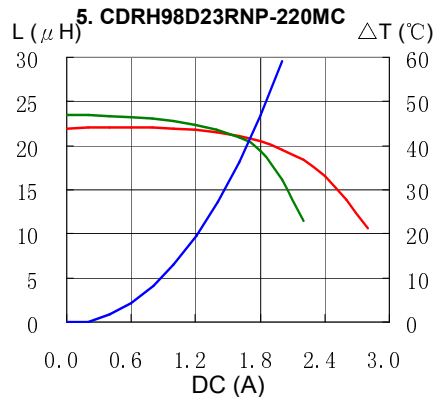
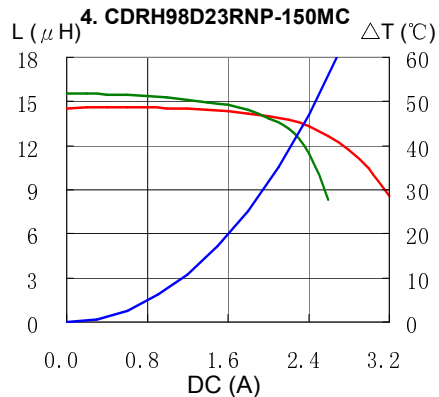
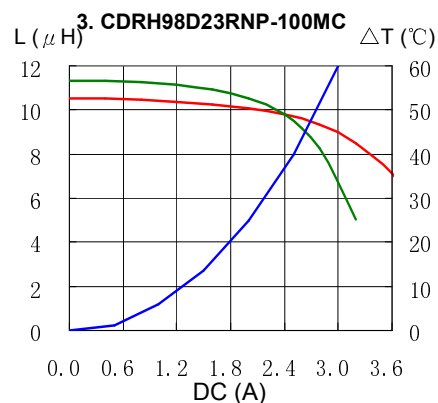
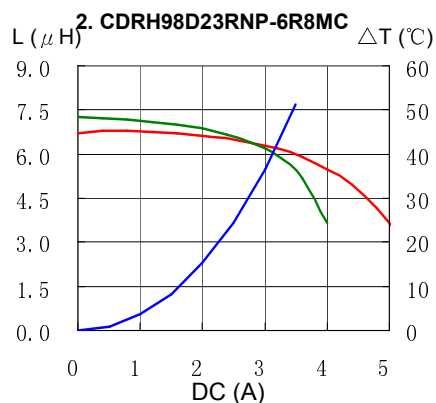
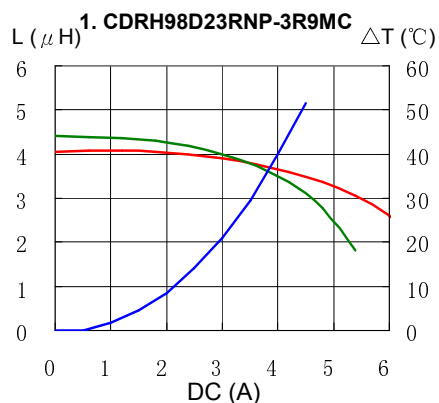


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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

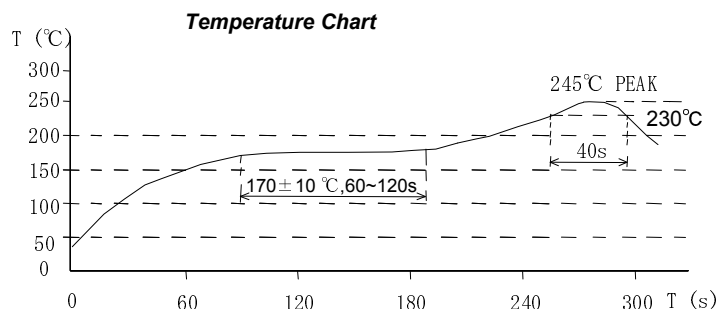
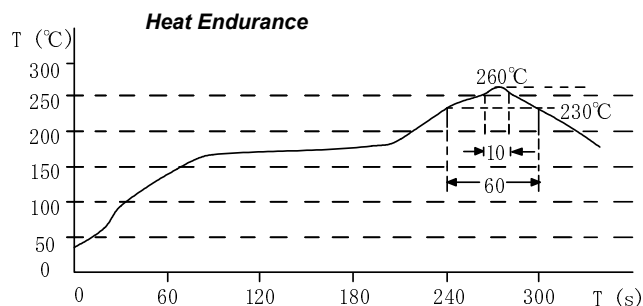


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Solder Reflow Condition



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