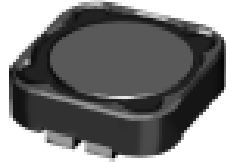




# THE DATASHEET OF CDRH124NP-220MC



# SMD Power Inductor CDRH124



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 4.5 mm Max.
- Product weight: 2.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

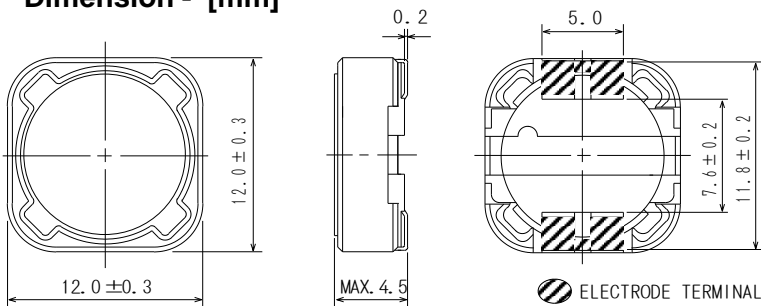
## Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 500pcs per reel

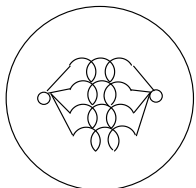
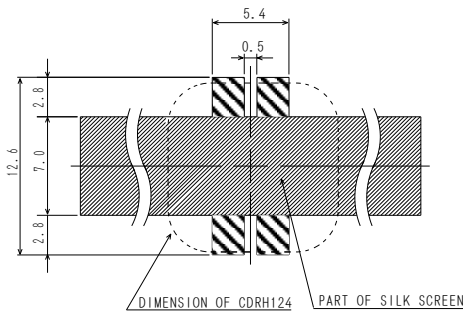
## Applications

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

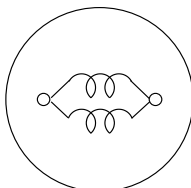
## Dimension - [mm]



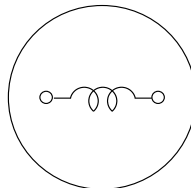
## Land pattern and Schematics - [mm]



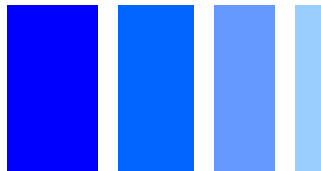
3.9µH~10µH



12µH~47µH,  
68µH, 82µH



56µH,  
100µH~330µH



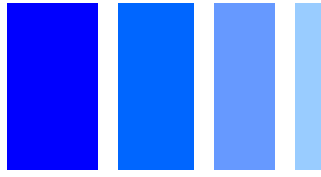
## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu\text{H}$ ) [ within ] ※1	D.C.R. (m $\Omega$ ) [Max.] (Typ.) (at 20°C)	Rated current (A) ※2
CDRH124NP-3R9MC	3R9	3.9 $\pm$ 20%	15(12)	6.5
CDRH124NP-4R7MC	4R7	4.7 $\pm$ 20%	18(14)	5.7
CDRH124NP-6R8MC	6R8	6.8 $\pm$ 20%	23(18)	4.9
CDRH124NP-8R2MC	8R2	8.2 $\pm$ 20%	26(21)	4.6
CDRH124NP-100MC	100	10 $\pm$ 20%	28(22)	4.5
CDRH124NP-120MC	120	12 $\pm$ 20%	38(30)	4.0
CDRH124NP-150MC	150	15 $\pm$ 20%	50(40)	3.2
CDRH124NP-180MC	180	18 $\pm$ 20%	57(46)	3.1
CDRH124NP-220MC	220	22 $\pm$ 20%	66(53)	2.9
CDRH124NP-270MC	270	27 $\pm$ 20%	80(64)	2.8
CDRH124NP-330MC	330	33 $\pm$ 20%	97(78)	2.7
CDRH124NP-390MC	390	39 $\pm$ 20%	132(106)	2.1
CDRH124NP-470MC	470	47 $\pm$ 20%	150(120)	1.9
CDRH124NP-560MC	560	56 $\pm$ 20%	190(152)	1.8
CDRH124NP-680MC	680	68 $\pm$ 20%	220(176)	1.5
CDRH124NP-820MC	820	82 $\pm$ 20%	260(208)	1.3
CDRH124NP-101MC	101	100 $\pm$ 20%	308(246)	1.2
CDRH124NP-121MC	121	120 $\pm$ 20%	380(304)	1.1
CDRH124NP-151MC	151	150 $\pm$ 20%	530(424)	0.95
CDRH124NP-181MC	181	180 $\pm$ 20%	620(496)	0.85
CDRH124NP-221MC	221	220 $\pm$ 20%	700(560)	0.8
CDRH124NP-271MC	271	270 $\pm$ 20%	870(696)	0.6
CDRH124NP-331MC	331	330 $\pm$ 20%	990(792)	0.5

※1. Inductance measuring condition: at 100 kHz.

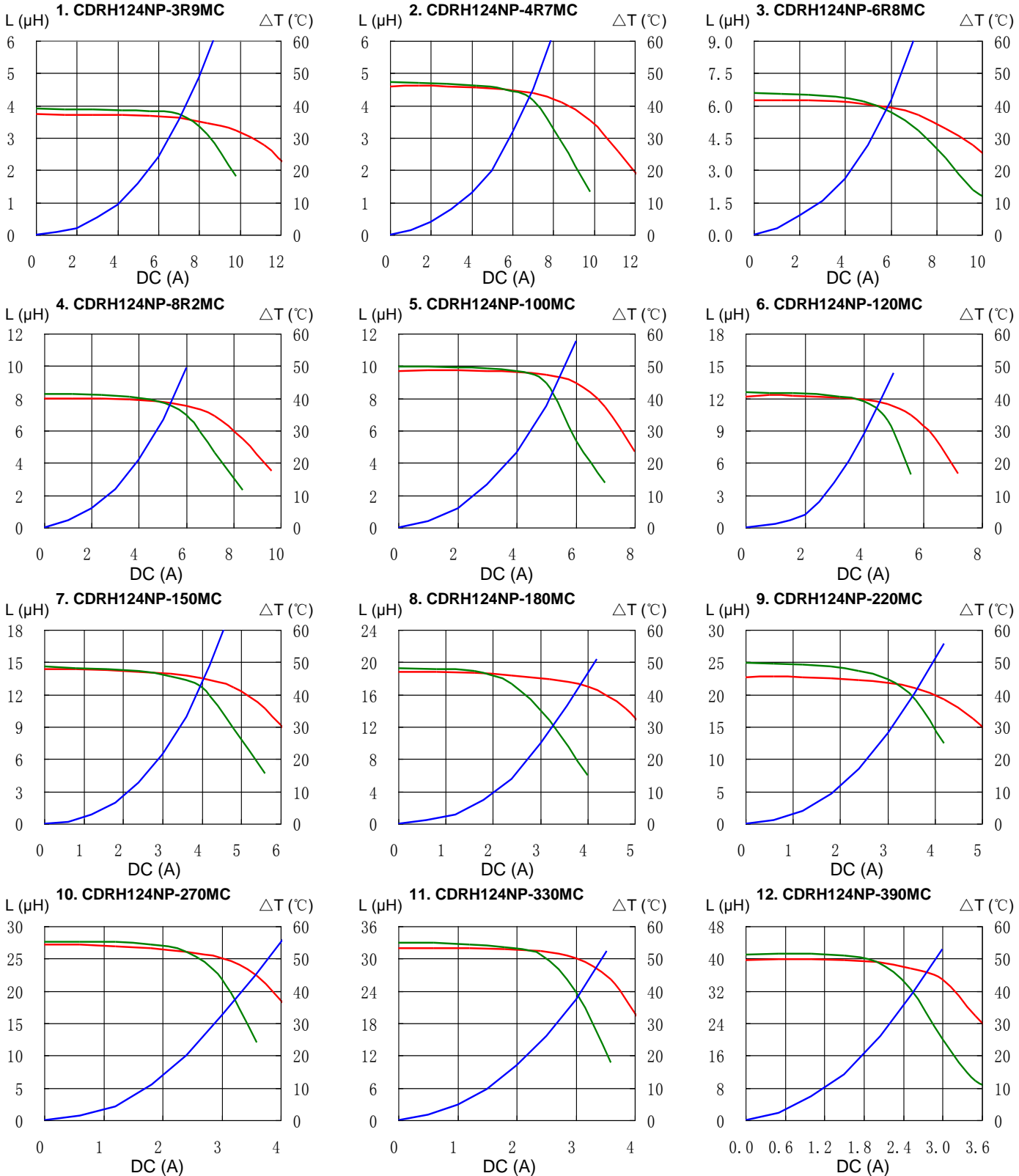
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower .

# SMD Power Inductor CDRH124



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



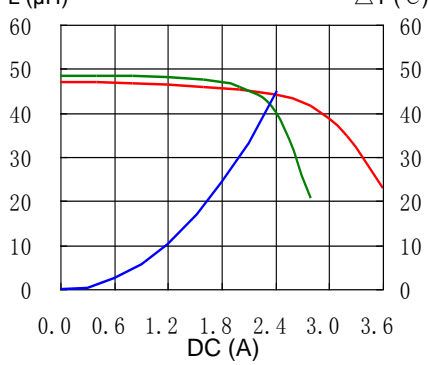
# SMD Power Inductor CDRH124



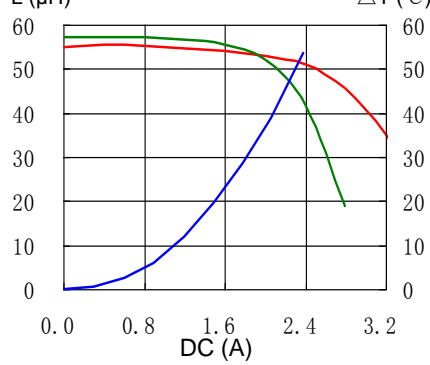
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

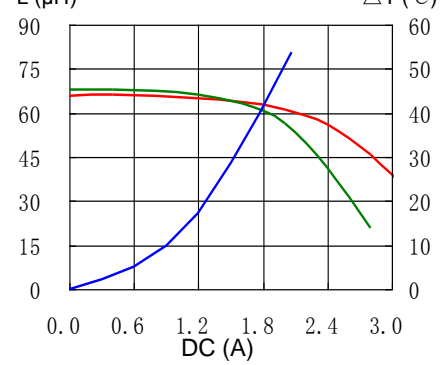
13. CDRH124NP-470MC



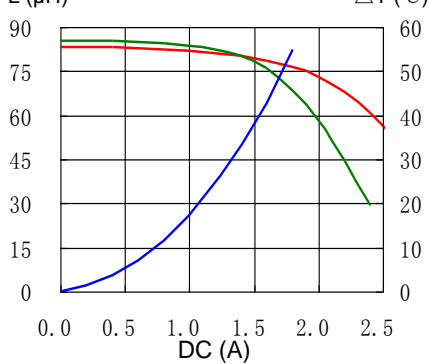
14. CDRH124NP-560MC



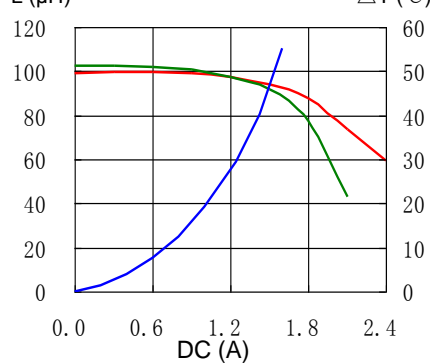
15. CDRH124NP-680MC



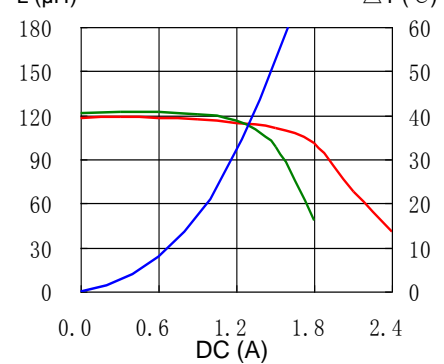
16. CDRH124NP-820MC



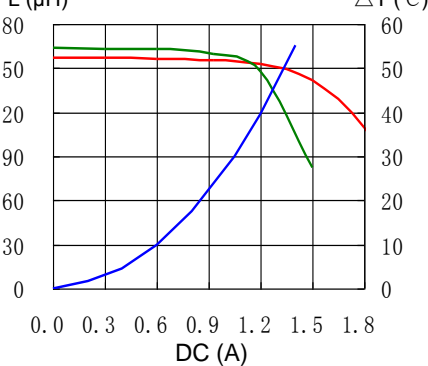
17. CDRH124NP-101MC



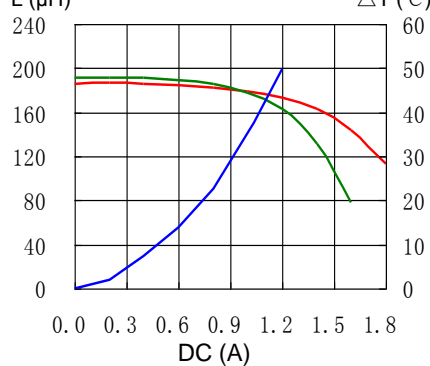
18. CDRH124NP-121MC



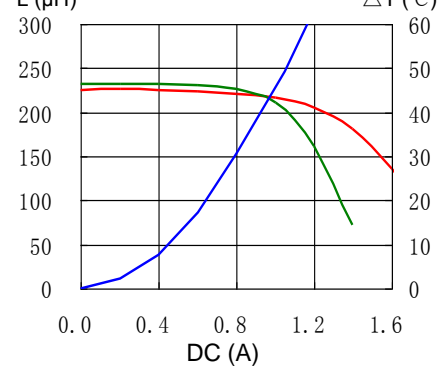
19. CDRH124NP-151MC



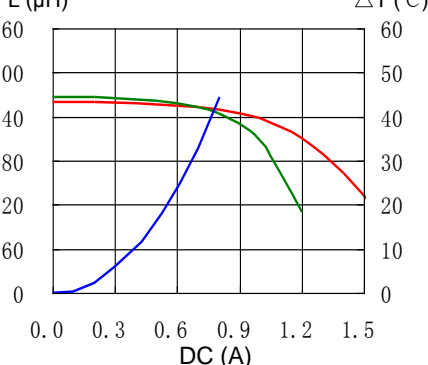
20. CDRH124NP-181MC



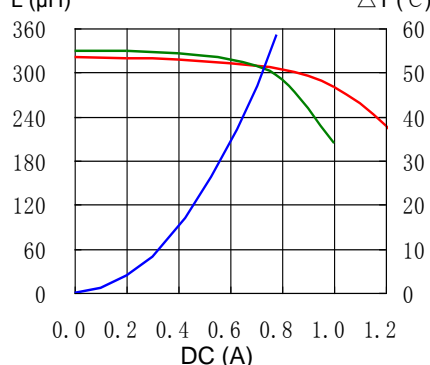
21. CDRH124NP-221MC



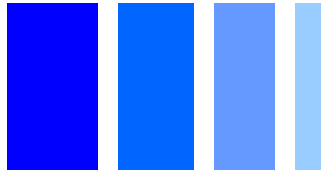
22. CDRH124NP-271MC



23. CDRH124NP-331MC

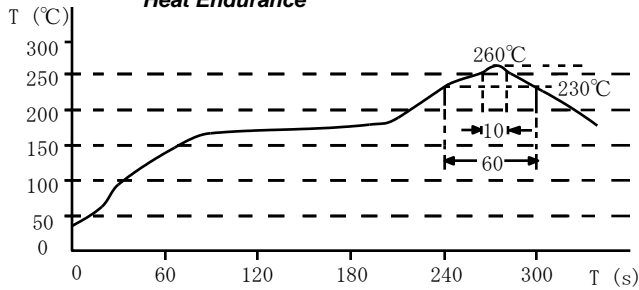


# SMD Power Inductor CDRH124

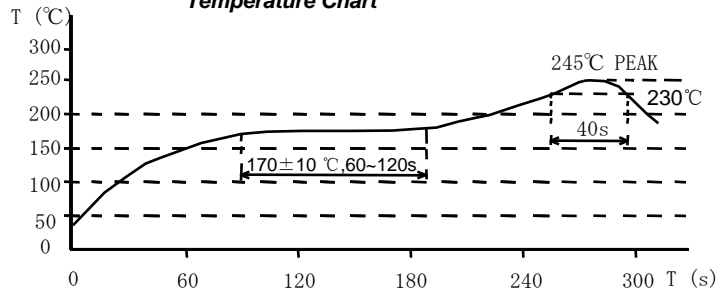


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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