

SMD Power Inductor

CDRH104



Description

- Magnetically shielded construction
- LxWxH: 10.1 x 9.2 x 5.0mm Max.
- Inductance range: 10~470 μ H
- Rated current range: 0.36~2.4A
- Customized inductor is available



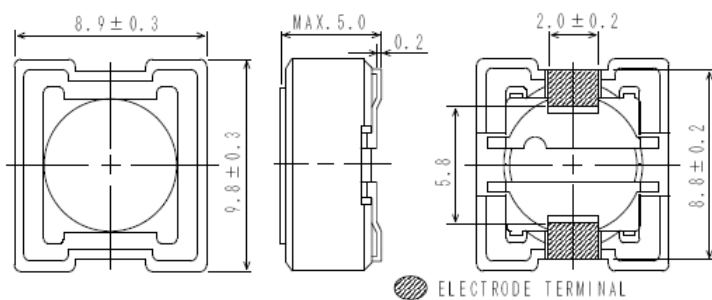
Environmental Data

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

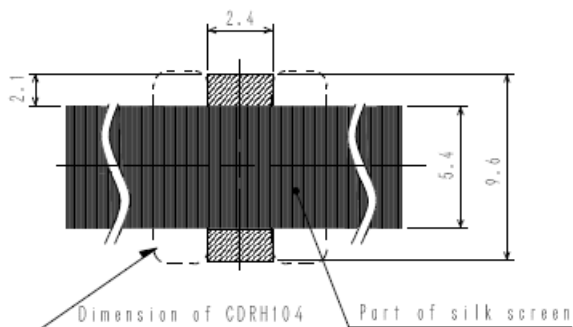
Applications

- Ideally used in notebook PC, LCD TV, DVD, game machine, STB, projector etc. as DC-DC converter inductors

Dimension - [mm]

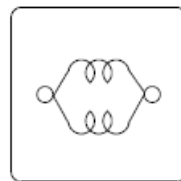


Recommended Land pattern - [mm]

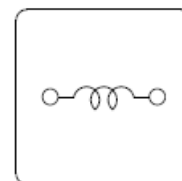


No vias and traces in the restricted area underneath the coil

Wire Connection



10 μ H ~ 39 μ H



47 μ H ~ 470 μ H

CDRH104

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within]	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Rated Current (A) ※1
CDRH104NP-100M	100	10 \pm 20%	50m (37m)	2.40
CDRH104NP-120M	120	12 \pm 20%	54m (40m)	2.25
CDRH104NP-150M	150	15 \pm 20%	61m (45m)	2.00
CDRH104NP-180M	180	18 \pm 20%	84m (63m)	1.80
CDRH104NP-220M	220	22 \pm 20%	94m (69m)	1.65
CDRH104NP-270M	270	27 \pm 20%	0.11 (82m)	1.45
CDRH104NP-330M	330	33 \pm 20%	0.15 (0.11)	1.35
CDRH104NP-390M	390	39 \pm 20%	0.17 (0.13)	1.20
CDRH104NP-470M	470	47 \pm 20%	0.21 (0.15)	1.10
CDRH104NP-560M	560	56 \pm 20%	0.23 (0.17)	1.00
CDRH104NP-680M	680	68 \pm 20%	0.26 (0.20)	0.93
CDRH104NP-820M	820	82 \pm 20%	0.36 (0.27)	0.84
CDRH104NP-101M	101	100 \pm 20%	0.41 (0.30)	0.76
CDRH104NP-121M	121	120 \pm 20%	0.45 (0.34)	0.70
CDRH104NP-151M	151	150 \pm 20%	0.64 (0.47)	0.63
CDRH104NP-181M	181	180 \pm 20%	0.84 (0.62)	0.57
CDRH104NP-221M	221	220 \pm 20%	0.96 (0.71)	0.52
CDRH104NP-271M	271	270 \pm 20%	1.07 (0.79)	0.47
CDRH104NP-331M	331	330 \pm 20%	1.37 (1.05)	0.43
CDRH104NP-391M	391	390 \pm 20%	1.55 (1.19)	0.39
CDRH104NP-471M	471	470 \pm 20%	1.74 (1.34)	0.36

※1. 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 ($T_a=20^\circ\text{C}$).



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