

Power Inductor CDH20D09D, CDH20D11D, CDH20D14D



 **sumida**



■ Features

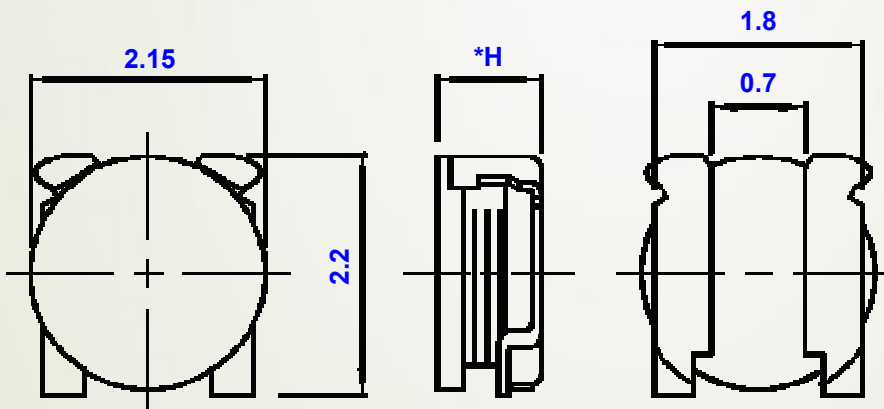
- ◎ Magnetically unshielded construction.
- ◎ Land pattern is compatible to Chip 2012 size.
- ◎ Storage temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$.
- ◎ Operating temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (including coil's self-heat).
- ◎ RoHS Compliance.

■ Applications

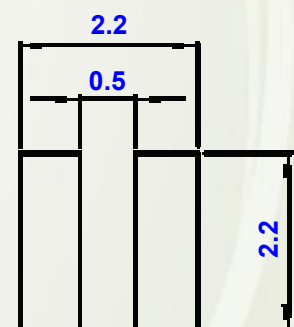
Ideally used in Mobilephone, PDA, MP3, DSC/DVC, HDD, etc as converter inductor.

■ Shapes and Dimensions/Recommended Land Patterns(mm)

◆ Dimensions (mm)



◆ Land pattern



*H CDH20D09D: 1.0mm Max;

CDH20D11D: 1.2mm Max;

CDH20D14D: 1.5mm Max.

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■ Electrical Characteristics specification.

◆ CDH20D09D

Sumida P/N	Inductance (μ H) at 100KHz	D.C.R. (m Ω) at 20°C	Saturation Current (A) ※1	Temperature Rise Current (A) ※2
CDH20D09DNP-R47NC	0.47 \pm 30%	40 \pm 20%	1.75	1.95
CDH20D09DNP-0R6NC	0.6 \pm 30%	55 \pm 20%	1.55	1.66
CDH20D09DNP-1R0NC	1.0 \pm 30%	85 \pm 20%	1.25	1.24
CDH20D09DNP-1R5NC	1.5 \pm 30%	132 \pm 20%	1.05	1.02
CDH20D09DNP-2R2MC	2.2 \pm 20%	195 \pm 20%	0.85	0.78
CDH20D09DNP-3R3MC	3.3 \pm 20%	305 \pm 20%	0.70	0.61
CDH20D09DNP-4R7MC	4.7 \pm 20%	475 \pm 20%	0.60	0.54
CDH20D09DNP-6R8MC	6.8 \pm 20%	775 \pm 20%	0.48	0.41

◆ CDH20D11D

Sumida P/N	Inductance (μ H) at 100KHz	D.C.R. (m Ω) at 20°C	Saturation Current (A) ※1	Temperature Rise Current (A) ※2
CDH20D11DNP-R47NC	0.47 \pm 30%	49 \pm 25%	2.80	1.86
CDH20D11DNP-R63NC	0.63 \pm 30%	68 \pm 25%	2.40	1.55
CDH20D11DNP-1R0NC	1.0 \pm 30%	100 \pm 20%	1.90	1.30
CDH20D11DNP-1R4NC	1.4 \pm 30%	150 \pm 20%	1.60	0.98
CDH20D11DNP-2R2MC	2.2 \pm 20%	238 \pm 20%	1.25	0.80
CDH20D11DNP-3R3MC	3.3 \pm 20%	364 \pm 20%	1.00	0.64
CDH20D11DNP-4R7MC	4.7 \pm 20%	575 \pm 20%	0.84	0.49
CDH20D11DNP-6R8MC	6.8 \pm 20%	900 \pm 20%	0.68	0.38
CDH20D11DNP-100MC	10 \pm 20%	1175 \pm 20%	0.56	0.35

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■ Electrical Characteristics specification.

◆ CDH20D14D

Sumida P/N	Inductance (μ H) at 100KHz	D.C.R. (m Ω) at 20°C	Saturation Current (A) ※1	Temperature Rise Current (A) ※2
CDH20D14DNP-R44NC	0.44 \pm 30%	43 \pm 25%	2.60	1.88
CDH20D14DNP-R72NC	0.72 \pm 30%	56 \pm 25%	2.10	1.60
CDH20D14DNP-1R0NC	1.0 \pm 30%	68 \pm 25%	1.75	1.52
CDH20D14DNP-1R5NC	1.5 \pm 30%	100 \pm 20%	1.50	1.16
CDH20D14DNP-2R2MC	2.2 \pm 20%	175 \pm 20%	1.19	0.82
CDH20D14DNP-3R3MC	3.3 \pm 20%	215 \pm 20%	1.03	0.74
CDH20D14DNP-4R7MC	4.7 \pm 20%	265 \pm 20%	0.88	0.70
CDH20D14DNP-6R8MC	6.8 \pm 20%	385 \pm 20%	0.75	0.51
CDH20D14DNP-100MC	10 \pm 20%	765 \pm 20%	0.56	0.38
CDH20D14DNP-150MC	15 \pm 20%	1000 \pm 20%	0.47	0.32

※1、 Saturation Current: This indicates the value of D.C. current when the inductance decreases to 70% of its nominal value.

※2、 Temperature Rise Current: The actual current when temperature of coil becomes $\Delta T=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

For More Information

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