Power Inductor
CDH20D09D,CDH20D11D, CDH20D14D

■ Features

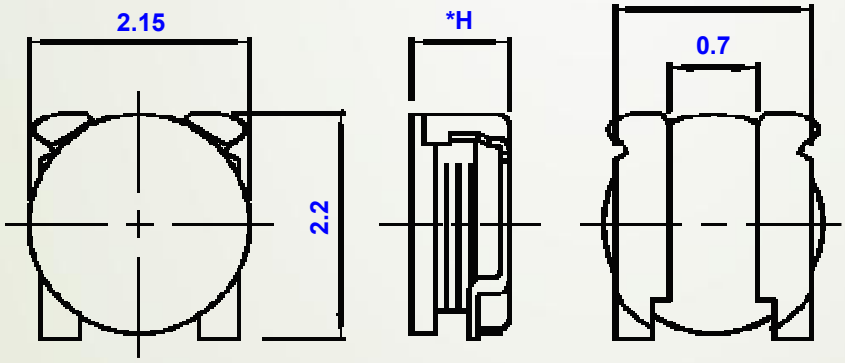
◎ Magnetically unshielded construction.
◎ Land pattern is compatible to Chip 2012 size.
◎ Storage temperature range:-40℃~+105℃.
◎ Operating temperature range:-40℃~+105℃(including coil's self-heat).
◎ RoHS Compliance.

■ Applications

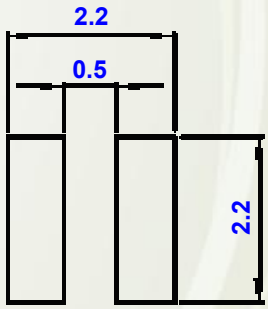
Ideally used in Mobilephone,PDA,MP3,DSC/DVC,HDD,etc as converter inductor.

■ 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 (μH) at 100KHz	D.C.R. (mΩ) at 20℃	Saturation Current (A) ※1	Temperature Rise Current (A) ※2
CDH20D09DNP-R47NC	0.47±30%	40±20%	1.75	1.95
CDH20D09DNP-0R6NC	0.6±30%	55±20%	1.55	1.66
CDH20D09DNP-1R0NC	1.0±30%	85±20%	1.25	1.24
CDH20D09DNP-1R5NC	1.5±30%	132±20%	1.05	1.02
CDH20D09DNP-2R2MC	2.2±20%	195±20%	0.85	0.78
CDH20D09DNP-3R3MC	3.3±20%	305±20%	0.70	0.61
CDH20D09DNP-4R7MC	4.7±20%	475±20%	0.60	0.54
CDH20D09DNP-6R8MC	6.8±20%	775±20%	0.48	0.41

◆ CDH20D11D

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

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■Electrical Characteristics specification.

◆ CDH20D14D

Sumida P/N	Inductance (μH) at 100KHz	D.C.R. (mΩ) at 20℃	Saturation Current (A) ※1	Temperature Rise Current (A) ※2
CDH20D14DNP-R44NC	0.44±30%	43±25%	2.60	1.88
CDH20D14DNP-R72NC	0.72±30%	56±25%	2.10	1.60
CDH20D14DNP-1R0NC	1.0±30%	68±25%	1.75	1.52
CDH20D14DNP-1R5NC	1.5±30%	100±20%	1.50	1.16
CDH20D14DNP-2R2MC	2.2±20%	175±20%	1.19	0.82
CDH20D14DNP-3R3MC	3.3±20%	215±20%	1.03	0.74
CDH20D14DNP-4R7MC	4.7±20%	265±20%	0.88	0.70
CDH20D14DNP-6R8MC	6.8±20%	385±20%	0.75	0.51
CDH20D14DNP-100MC	10±20%	765±20%	0.56	0.38
CDH20D14DNP-150MC	15±20%	1000±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 △T=40℃.(Ta=20℃)

For More Information

Hong Kong
Tel.+852-2880-6688
FAX.+852-2565-9600

Shanghai
Tel.+86-021-58363299
FAX.+86-021-58363266

Shenzhen
Tel.+86-755-82910228
FAX.+86-755-82910338

Taipei
Tel.+886-2-27065228
FAX.+886-2-27065229

Tokyo
Tel.+81-3-5202-7112
FAX.+81-3-5202-7105

Seoul
Tel.+82-2-6237-0777
FAX.+82-2-6237-0778

Singapore
Tel.+65-6296-3388
FAX.+65-6296-3390

Malaysia
Tel.+60-3-8733-0900
FAX.+60-3-8737-7384

Chicago
Tel.+1-847-545-6700
FAX. +1-847-545-6720

California
Tel.+1-408-321-9660
FAX. +1-408-321-9308