

# Power Inductor

## CDH20D09D, CDH20D11D, CDH20D14D



### ■ Features

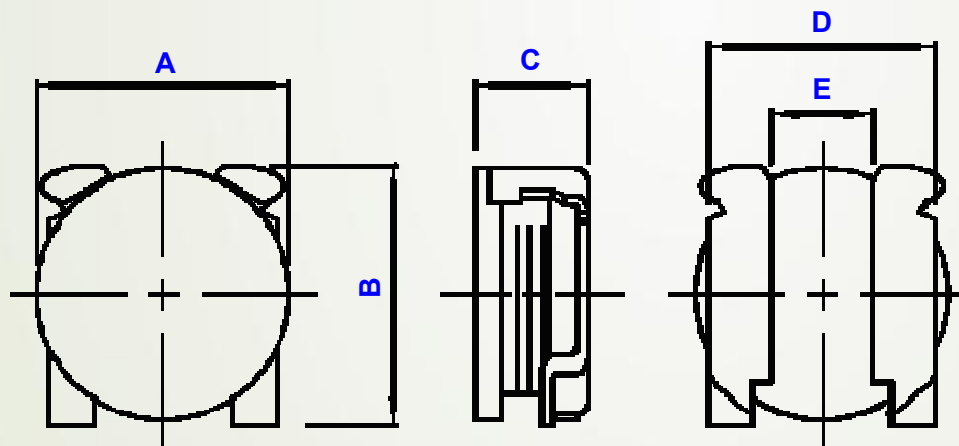
- ◎ Magnetically unshielded construction.
- ◎ Storage temperature range: -40°C~+105°C.
- ◎ Operating temperature range: -40°C~+105°C (including coil's self-heat).
- ◎ RoHS Compliance.

### ■ Applications

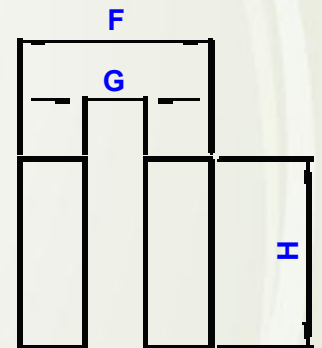
Ideally used in Mobilephone, PDA, MP3, DSC/DVC, HDD, etc as converter inductor.

### ■ Shapes and Dimensions/Recommended Land Patterns(mm)

#### ◆ Dimensions



#### ◆ Land pattern



Type name	A Max.	B Max.	C Max.	D	E	F	G	H
CDH20D09D	2.15	2.2	1.0	1.8	0.8	2.2	0.7	2.2
CDH20D11D	2.15	2.2	1.2	1.8	0.8	2.2	0.7	2.2
CDH20D14D	2.15	2.2	1.5	1.8	0.7	2.0	0.6	2.0

# Power Inductor

## CDH20D09D, CDH20D11D, CDH20D14D



### ■ Electrical Characteristics specification.

#### ◆ CDH20D09D

Sumida P/N	Inductance ( $\mu$ H) at 100KHz	D.C.R. ( $m\Omega$ ) at 20°C	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 ( $\mu$ H) at 100KHz	D.C.R. ( $m\Omega$ ) at 20°C	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

# Power Inductor

## CDH20D09D, CDH20D11D, CDH20D14D



### ■ Electrical Characteristics specification.

#### ◆ CDH20D14D

Sumida P/N	Inductance ( $\mu\text{H}$ ) at 100KHz	D.C.R. ( $\text{m}\Omega$ ) at 20°C	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  $\Delta T=40^\circ\text{C}$ . ( $T_a=20^\circ\text{C}$ )

#### For More Information

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