



**THE DATASHEET OF  
CDRH5D28-180NC**

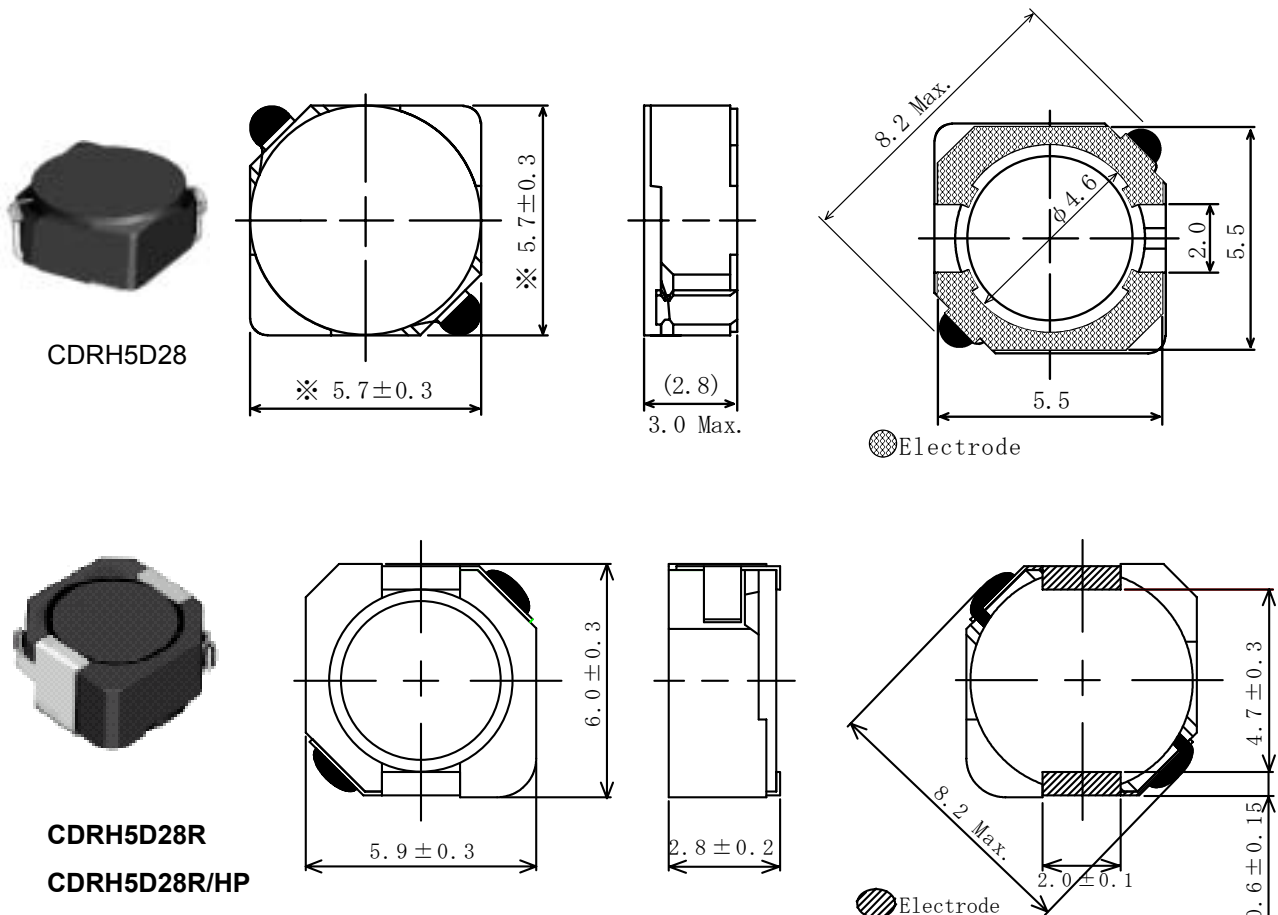


**Type: CDRH5D28 , CDRH5D28R , CDRH5D28R/HP**
**◆ Product Description**

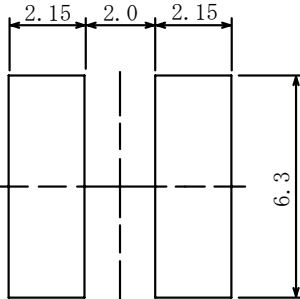
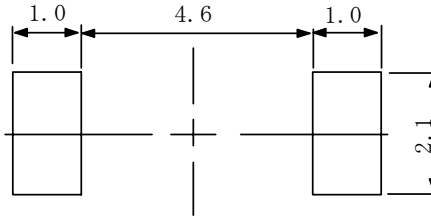
- 6.0×6.0mm Max.(L×W), 3.0mm Max. Height.(CDRH5D28)
- 6.2×6.2mm Max.(L×W), 3.0mm Max. Height.(CDRH5D28R,CDRH5D28R/HP)
- Standard type CDRH5D28, CDRH5D28R and High Power type CDRH5D28R /HP are available.
- Inductance range:2.5~100 μ H(CDRH5D28,CDRH5D28R); 2.2~47uH(CDRH5D28R/HP);
- Rated current range:0.42~2.6A(CDRH5D28); 0.4~2.6A(CDRH5D28R);  
0.85~3.8A(CDRH5D28R/HP);
- In addition to the standards versions shown here, custom inductors are also available to meet your exact requirements.

**◆ Feature**

- Magnetically shielded construction.
- Ideally used in Notebook PC,HDD,DSC/DVC, LCD TV ,Game machine etc as DC-DC Converter inductors.
- RoHS Compliance.

**◆ Dimensions (mm)**


Please refer to the sales offices on our website for a representative near you

**Type: CDRH5D28 , CDRH5D28R , CDRH5D28R/HP**
**◆ Land Pattern (mm)**

**CDRH5D28**

**CDRH5D28R, CDRH5D28R/HP**
**◆ Specification(CDRH5D28)**

Part Name ※	Stamp	Inductance ( $\mu$ H) [Within] 100kHz/1V	D.C.R. ( $\Omega$ ) [Max.] (Typ.) (at 20°C)	Rated current (A) ※1-1
CDRH5D28NP-2R5N□	2R5	2.5 $\pm$ 30%	18m (13m)	2.60
CDRH5D28NP-3R0N□	3R0	3.0 $\pm$ 30%	24m (18m)	2.40
CDRH5D28NP-4R2N□	4R2	4.2 $\pm$ 30%	31m (23m)	2.20
CDRH5D28NP-5R3N□	5R3	5.3 $\pm$ 30%	38m (28m)	1.90
CDRH5D28NP-6R2N□	6R2	6.2 $\pm$ 30%	45m (33m)	1.80
CDRH5D28NP-8R2N□	8R2	8.2 $\pm$ 30%	53m (39m)	1.60
CDRH5D28NP-10N□	100	10 $\pm$ 30%	65m (48m)	1.30
CDRH5D28NP-12N□	120	12 $\pm$ 30%	76m (56m)	1.20
CDRH5D28NP-15N□	150	15 $\pm$ 30%	103m (76m)	1.10
CDRH5D28NP-18N□	180	18 $\pm$ 30%	110m (82m)	1.00
CDRH5D28NP-22N□	220	22 $\pm$ 30%	122m (90m)	0.90
CDRH5D28NP-27N□	270	27 $\pm$ 30%	175m(130m)	0.85
CDRH5D28NP-33N□	330	33 $\pm$ 30%	189m(140m)	0.75
CDRH5D28NP-39N□	390	39 $\pm$ 30%	212m(157m)	0.70
CDRH5D28NP-47N□	470	47 $\pm$ 30%	250m(185m)	0.62
CDRH5D28NP-56N□	560	56 $\pm$ 30%	305m(226m)	0.58
CDRH5D28NP-68N□	680	68 $\pm$ 30%	355m(263m)	0.52
CDRH5D28NP-82N□	820	82 $\pm$ 30%	463m(343m)	0.46
CDRH5D28NP-101N□	101	100 $\pm$ 30%	520m(385m)	0.42

**Type: CDRH5D28 , CDRH5D28R , CDRH5D28R/HP**
**◆ Specification(CDRH5D28R)**

Part Name ※	Stamp	Inductance ( $\mu$ H) [Within] 100kHz/1V	D.C.R. (m $\Omega$ ) [Max.] (Typ.) (at 20°C)	Rated current (A) ※1-1
CDRH5D28RNP-2R5N□	2R5	2.5 $\pm$ 30%	17.6(13)	2.60
CDRH5D28RNP-3R3N□	3R3	3.3 $\pm$ 30%	20.3(15)	2.30
CDRH5D28RNP-4R0N□	4R0	4.0 $\pm$ 30%	27.0(20)	2.10
CDRH5D28RNP-5R0N□	5R0	5.0 $\pm$ 30%	31.1(23)	1.85
CDRH5D28RNP-6R0N□	6R0	6.0 $\pm$ 30%	41.9(31)	1.70
CDRH5D28RNP-8R0N□	8R0	8.0 $\pm$ 30%	49.9(37)	1.50
CDRH5D28RNP-100N□	100	10 $\pm$ 30%	54.0(40)	1.30
CDRH5D28RNP-120N□	120	12 $\pm$ 30%	71.6(53)	1.20
CDRH5D28RNP-150N□	150	15 $\pm$ 30%	82.4(61)	1.10
CDRH5D28RNP-180N□	180	18 $\pm$ 30%	101.5(75)	1.05
CDRH5D28RNP-220N□	220	22 $\pm$ 30%	119.0(88)	0.95
CDRH5D28RNP-270N□	270	27 $\pm$ 30%	146.0(108)	0.85
CDRH5D28RNP-330N□	330	33 $\pm$ 30%	182.5(135)	0.76
CDRH5D28RNP-390N□	390	39 $\pm$ 30%	209.5(155)	0.68
CDRH5D28RNP-470N□	470	47 $\pm$ 30%	229.5(170)	0.60
CDRH5D28RNP-560N□	560	56 $\pm$ 30%	305.0(226)	0.55
CDRH5D28RNP-680N□	680	68 $\pm$ 30%	351.0(260)	0.48
CDRH5D28RNP-820N□	820	82 $\pm$ 30%	418.5(310)	0.45
CDRH5D28RNP-101N□	101	100 $\pm$ 30%	520.0(385)	0.40

**Type: CDRH5D28 , CDRH5D28R , CDRH5D28R/HP**
**◆ Specification(CDRH5D28R/HP)**

Part Name ※	Stamp	Inductance ( $\mu$ H) [Within] 100kHz/1V	D.C.R.(m $\Omega$ ) [Max.](Typ.) (at 20°C)	Saturation Current (A) ※1-2		Temperature Rise current (A)※2
				(20°C)	(105°C)	
CDRH5D28RHPNP-2R2N□	2R2	2.2 $\pm$ 25%	24.8(19.8)	5.50	4.50	3.80
CDRH5D28RHPNP-3R0N□	3R0	3.0 $\pm$ 25%	31.8(25.4)	4.70	3.90	3.35
CDRH5D28RHPNP-4R7N□	4R7	4.7 $\pm$ 25%	43.1(34.5)	3.70	3.05	2.80
CDRH5D28RHPNP-5R6N□	5R6	5.6 $\pm$ 25%	47.9(38.3)	3.30	2.65	2.70
CDRH5D28RHPNP-6R8N□	6R8	6.8 $\pm$ 25%	61.3(49.0)	3.10	2.55	2.50
CDRH5D28RHPNP-8R2N□	8R2	8.2 $\pm$ 25%	88.4(70.7)	2.70	2.30	1.90
CDRH5D28RHPNP-10 $\emptyset$ M□	100	10.0 $\pm$ 20%	93.0(74.4)	2.45	2.05	1.85
CDRH5D28RHPNP-12 $\emptyset$ M□	120	12.0 $\pm$ 20%	115(92.1)	2.30	2.00	1.60
CDRH5D28RHPNP-15 $\emptyset$ M□	150	15.0 $\pm$ 20%	144(115)	2.05	1.65	1.40
CDRH5D28RHPNP-18 $\emptyset$ M□	180	18.0 $\pm$ 20%	161(128)	1.90	1.55	1.35
CDRH5D28RHPNP-22 $\emptyset$ M□	220	22.0 $\pm$ 20%	213(171)	1.75	1.42	1.20
CDRH5D28RHPNP-27 $\emptyset$ M□	270	27.0 $\pm$ 20%	277(221)	1.60	1.30	1.00
CDRH5D28RHPNP-33 $\emptyset$ M□	330	33.0 $\pm$ 20%	314(251)	1.35	1.10	0.90
CDRH5D28RHPNP-47 $\emptyset$ M□	470	47.0 $\pm$ 20%	379(303)	1.20	1.00	0.85

**※ Description of part name**

CDRH5D28RHPNP-2R2N□

- B Box
- C Carrier Tape

※1-1. Rated current: The DC current at which the inductance decreases to 65 % of it's nominal value or when  $\Delta t=30^{\circ}\text{C}$  (CDRH5D28) or  $\Delta t=40^{\circ}\text{C}$  (CDRH5D28R), whichever is lower ( $T_a=20^{\circ}\text{C}$ ).

※1-2. Saturation current: The DC current at which the inductance decreases to 65% of it's nominal value.

※2. Temperature rise current: The DC current at which the temperature rise is  $\Delta t=40^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ ).

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View CDRH5D28-180NC on WIN SOURCE](#)
-  [Sumida America Components Inc. Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management