



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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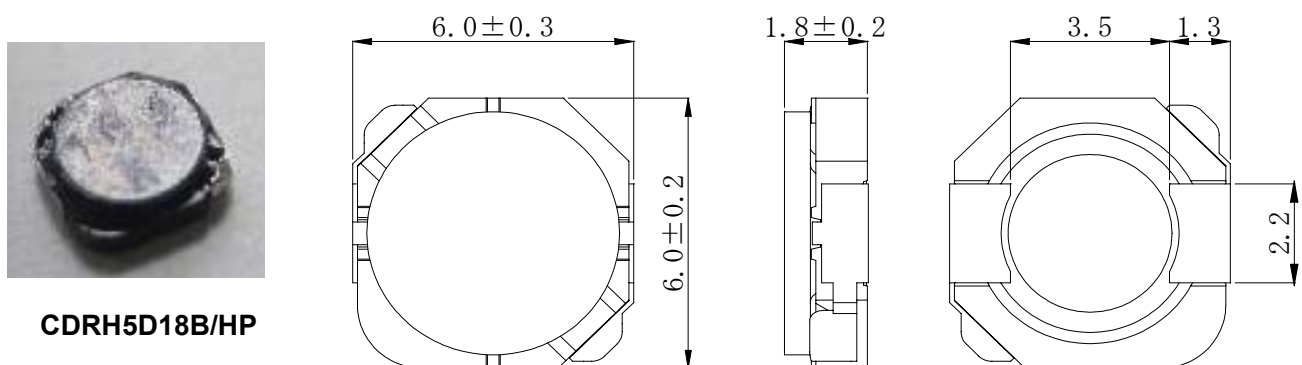
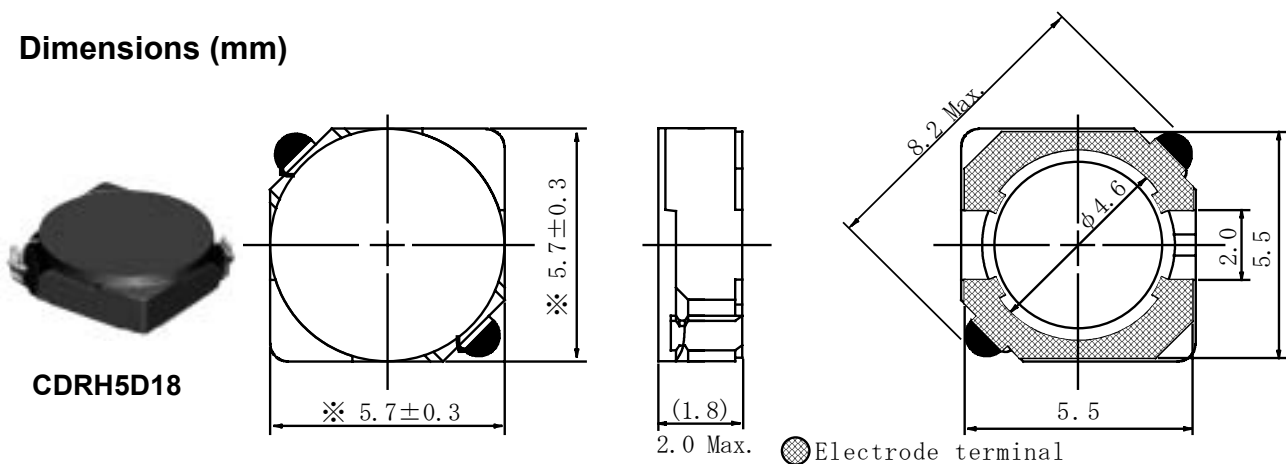


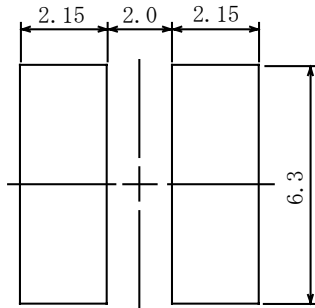
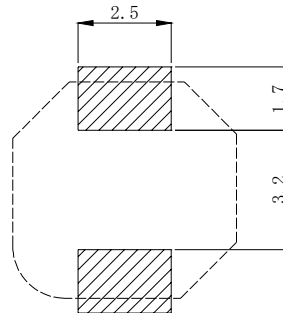
**Type: CDRH5D18, CDRH5D18B/HP**
**◆ Product Description**

- 6.0×6.0mm Max.(L×W)(CDRH5D18), 6.3×6.2mm Max.(L×W)(CDRH5D18B/HP) 2.0mm Max. Height.
- Inductance Range: 4.1~100  $\mu$  H(CDRH5D18), 0.6~5.0  $\mu$  H(CDRH5D18B/HP).
- Rated current range: 0.36~1.95A(CDRH5D18), 1.7~4.4A(CDRH5D18B/HP).
- In addition to the standard versions of inductors shown here, custom inductors are available to meet your exact requirements.

**◆ Feature**

- Magnetically shielded construction.
- Ideally used in Mobile phone, MP3, PDA, HDD, DSC/DVC, Game machine, etc as DC-DC Converter inductors.
- RoHS Compliance

**◆ Dimensions (mm)**


**Type: CDRH5D18, CDRH5D18B/HP**
**◆ Land Pattern (mm)**

**CDRH5D18**

**CDRH5D18B/HP**
**◆ Specification(CDRH5D18)**

Part Name ※	Stamp	Inductance( $\mu$ H) [Within] 100kHz/1V	D.C.R. ( $\Omega$ ) [Max.] (Typ.) (at 20°C)	Rated current (A) ※1
CDRH5D18NP-4R1N□	4R1	4.1 $\pm$ 30%	57m (42m)	1.95
CDRH5D18NP-5R4N□	5R4	5.4 $\pm$ 30%	76m (56m)	1.60
CDRH5D18NP-6R2N□	6R2	6.2 $\pm$ 30%	96m (71m)	1.40
CDRH5D18NP-8R9N□	8R9	8.9 $\pm$ 30%	116m (86m)	1.25
CDRH5D18NP-10 $\emptyset$ N□	100	10 $\pm$ 30%	124m (92m)	1.20
CDRH5D18NP-12 $\emptyset$ N□	120	12 $\pm$ 30%	153m (113m)	1.10
CDRH5D18NP-15 $\emptyset$ N□	150	15 $\pm$ 30%	196m (145m)	0.97
CDRH5D18NP-18 $\emptyset$ N□	180	18 $\pm$ 30%	210m (155m)	0.85
CDRH5D18NP-22 $\emptyset$ N□	220	22 $\pm$ 30%	290m (215m)	0.80
CDRH5D18NP-27 $\emptyset$ N□	270	27 $\pm$ 30%	330m (245m)	0.75
CDRH5D18NP-33 $\emptyset$ N□	330	33 $\pm$ 30%	385m (285m)	0.65
CDRH5D18NP-39 $\emptyset$ N□	390	39 $\pm$ 30%	520m (385m)	0.57
CDRH5D18NP-47 $\emptyset$ N□	470	47 $\pm$ 30%	595m (440m)	0.54
CDRH5D18NP-56 $\emptyset$ N□	560	56 $\pm$ 30%	665m (493m)	0.50
CDRH5D18NP-68 $\emptyset$ N□	680	68 $\pm$ 30%	840m (622m)	0.43
CDRH5D18NP-82 $\emptyset$ N□	820	82 $\pm$ 30%	978m (725m)	0.41
CDRH5D18NP-101N□	101	100 $\pm$ 30%	1.2 (895m)	0.36

**Type: CDRH5D18, CDRH5D18B/HP**
**◆ Specification(CDRH5D18B/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
				(at20°C)	(at100°C)	
CDRH5D18BHPNP-ØR6M□	0R6	0.6±20%	25 (19)	8.2	6.8	4.4
CDRH5D18BHPNP-1RØM□	1R0	1.0±20%	31 (24)	6.6	5.6	3.7
CDRH5D18BHPNP-1R5M□	1R5	1.5±20%	38 (29)	5.3	4.6	2.8
CDRH5D18BHPNP-1R8M□	1R8	1.8±20%	46 (35)	5.0	4.1	2.5
CDRH5D18BHPNP-2R7M□	2R7	2.7±20%	65 (50)	3.9	3.3	2.3
CDRH5D18BHPNP-3R3M□	3R3	3.3±20%	78 (60)	3.4	2.9	2.0
CDRH5D18BHPNP-4R2M□	4R2	4.2±20%	98 (75)	3.1	2.5	1.8
CDRH5D18BHPNP-5RØM□	5R0	5.0±20%	109 (84)	2.7	2.4	1.7

**※ Description of part name**

CDRH5D18BHPNP-ØR6M□

- B Box
- C Carrier Tape

※1-1. Rated current: The DC current at which the inductance decreases to 65 % of its nominal value or when  $\Delta t=30^{\circ}\text{C}$ , whichever is lower( $T_a=20^{\circ}\text{C}$ ).

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

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