THE DATASHEET OF

CDRH5D28-150NC

Type: CDRH5D28 , CDRH5D28R , CDRH5D28R/HP

◆ Product Description

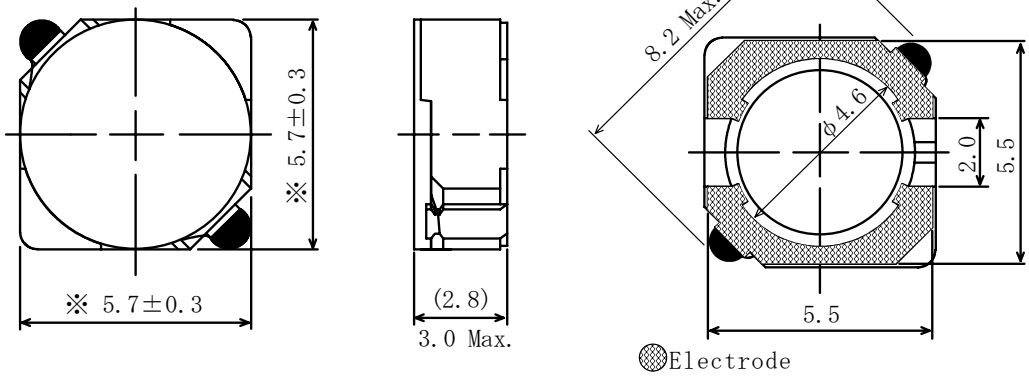
・6.0×6.0mm Max.(L×W), 3.0mm Max. Height.(CDRH5D28)
・6.2×6.2mm Max.(L×W), 3.0mm Max. Height.(CDRH5D28R,CDRH5D28R/HP)
・Standard type CDRH5D28, CDRH5D28R and High Power type CDRH5D28R /HP are available.
・Inductance range:2.5～100μH(CDRH5D28,CDRH5D28R); 2.2～47uH(CDRH5D28R/HP);
・Rated current range:0.42～2.6A(CDRH5D28); 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.

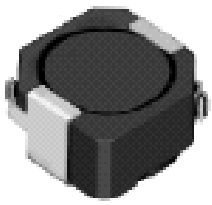
◆ Feature

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

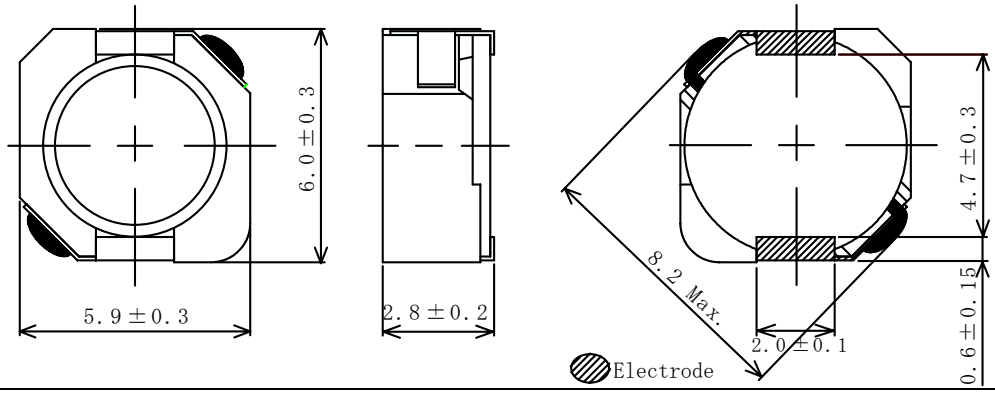
◆ Dimensions (mm)

CDRH5D28



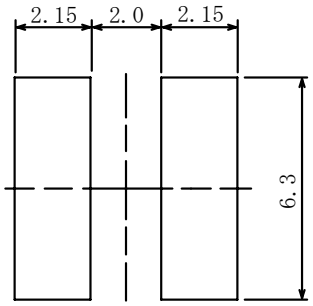


CDRH5D28R
CDRH5D28R/HP

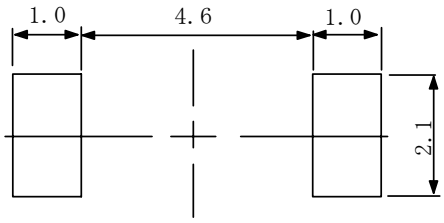


Type: CDRH5D28 , CDRH5D28R , CDRH5D28R/HP

◆ Land Pattern (mm)



CDRH5D28



CDRH5D28R, CDRH5D28R/HP

◆ Specification(CDRH5D28)

Part Name ※	Stamp	Inductance (μH) [Within] 100kHz/1V	D.C.R. (Ω) [Max.] (Typ.) (at 20℃)	Rated current (A) ※1-1
CDRH5D28NP-2R5N□	2R5	2.5±30%	18m (13m)	2.60
CDRH5D28NP-3RØN□	3R0	3.0±30%	24m (18m)	2.40
CDRH5D28NP-4R2N□	4R2	4.2±30%	31m (23m)	2.20
CDRH5D28NP-5R3N□	5R3	5.3±30%	38m (28m)	1.90
CDRH5D28NP-6R2N□	6R2	6.2±30%	45m (33m)	1.80
CDRH5D28NP-8R2N□	8R2	8.2±30%	53m (39m)	1.60
CDRH5D28NP-1ØØN□	100	10±30%	65m (48m)	1.30
CDRH5D28NP-12ØN□	120	12±30%	76m (56m)	1.20
CDRH5D28NP-15ØN□	150	15±30%	103m (76m)	1.10
CDRH5D28NP-18ØN□	180	18±30%	110m (82m)	1.00
CDRH5D28NP-22ØN□	220	22±30%	122m (90m)	0.90
CDRH5D28NP-27ØN□	270	27±30%	175m(130m)	0.85
CDRH5D28NP-33ØN□	330	33±30%	189m(140m)	0.75
CDRH5D28NP-39ØN□	390	39±30%	212m(157m)	0.70
CDRH5D28NP-47ØN□	470	47±30%	250m(185m)	0.62
CDRH5D28NP-56ØN□	560	56±30%	305m(226m)	0.58
CDRH5D28NP-68ØN□	680	68±30%	355m(263m)	0.52
CDRH5D28NP-82ØN□	820	82±30%	463m(343m)	0.46
CDRH5D28NP-1Ø1N□	101	100±30%	520m(385m)	0.42

Type: CDRH5D28 , CDRH5D28R , CDRH5D28R/HP

◆ Specification(CDRH5D28R)

Part Name ※	Stamp	Inductance (μH) [Within] 100kHz/1V	D.C.R. (mΩ) [Max.] (Typ.) (at 20℃)	Rated current (A) ※1-1
CDRH5D28RNP-2R5N□	2R5	2.5±30%	17.6(13)	2.60
CDRH5D28RNP-3R3N□	3R3	3.3±30%	20.3(15)	2.30
CDRH5D28RNP-4RØN□	4R0	4.0±30%	27.0(20)	2.10
CDRH5D28RNP-5RØN□	5R0	5.0±30%	31.1(23)	1.85
CDRH5D28RNP-6RØN□	6R0	6.0±30%	41.9(31)	1.70
CDRH5D28RNP-8RØN□	8R0	8.0±30%	49.9(37)	1.50
CDRH5D28RNP-1ØØN□	100	10±30%	54.0(40)	1.30
CDRH5D28RNP-12ØN□	120	12±30%	71.6(53)	1.20
CDRH5D28RNP-15ØN□	150	15±30%	82.4(61)	1.10
CDRH5D28RNP-18ØN□	180	18±30%	101.5(75)	1.05
CDRH5D28RNP-22ØN□	220	22±30%	119.0(88)	0.95
CDRH5D28RNP-27ØN□	270	27±30%	146.0(108)	0.85
CDRH5D28RNP-33ØN□	330	33±30%	182.5(135)	0.76
CDRH5D28RNP-39ØN□	390	39±30%	209.5(155)	0.68
CDRH5D28RNP-47ØN□	470	47±30%	229.5(170)	0.60
CDRH5D28RNP-56ØN□	560	56±30%	305.0(226)	0.55
CDRH5D28RNP-68ØN□	680	68±30%	351.0(260)	0.48
CDRH5D28RNP-82ØN□	820	82±30%	418.5(310)	0.45
CDRH5D28RNP–1Ø1N□	101	100±30%	520.0(385)	0.40

Type: CDRH5D28 , CDRH5D28R , CDRH5D28R/HP

◆ Specification(CDRH5D28R/HP)

Part Name ※	Stamp	Inductance (μH) [Within] 100kHz/1V	D.C.R.(mΩ) [Max.](Typ.) (at 20℃)	Saturation Current (A) ※1-2		Temperature Rise current (A)※2
				(20℃)	(105℃)	
CDRH5D28RHPNP-2R2N□	2R2	2.2±25%	24.8(19.8)	5.50	4.50	3.80
CDRH5D28RHPNP-3RØN□	3R0	3.0±25%	31.8(25.4)	4.70	3.90	3.35
CDRH5D28RHPNP-4R7N□	4R7	4.7±25%	43.1(34.5)	3.70	3.05	2.80
CDRH5D28RHPNP-5R6N□	5R6	5.6±25%	47.9(38.3)	3.30	2.65	2.70
CDRH5D28RHPNP-6R8N□	6R8	6.8±25%	61.3(49.0)	3.10	2.55	2.50
CDRH5D28RHPNP-8R2N□	8R2	8.2±25%	88.4(70.7)	2.70	2.30	1.90
CDRH5D28RHPNP-1ØØM□	100	10.0±20%	93.0(74.4)	2.45	2.05	1.85
CDRH5D28RHPNP-12ØM□	120	12.0±20%	115(92.1)	2.30	2.00	1.60
CDRH5D28RHPNP-15ØM□	150	15.0±20%	144(115)	2.05	1.65	1.40
CDRH5D28RHPNP-18ØM□	180	18.0±20%	161(128)	1.90	1.55	1.35
CDRH5D28RHPNP-22ØM□	220	22.0±20%	213(171)	1.75	1.42	1.20
CDRH5D28RHPNP-27ØM□	270	27.0±20%	277(221)	1.60	1.30	1.00
CDRH5D28RHPNP-33ØM□	330	33.0±20%	314(251)	1.35	1.10	0.90
CDRH5D28RHPNP-47ØM□	470	47.0±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 △t=30℃(CDRH5D28)or△t=40℃(CDRH5D28R), whichever is lower(Ta=20℃).

※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 △t=40℃.(Ta=20℃).

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