

Type: CDH38D09, CDH38D09/SHP, CDH38D09/SLD

♦ Product Description

- 4.0×4.0mm Max.(L×W), 1.0mm Max. Height.
- · Inductance range: 1.2~22 µ H (CDH38D09);

 $2.5 \sim 22 \,\mu$ H (CDH38D09/SHP); $2.7 \sim 33 \,\mu$ H(CDH38D09/SLD),

Rated current range:0.45~1.35A (CDH38D09);

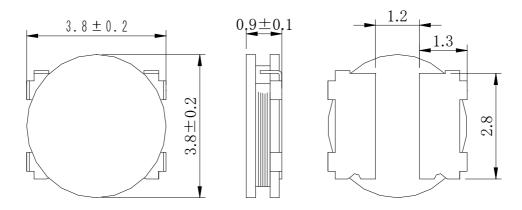
 $0.52{\sim}1.6$ A (CDH38D09/SHP); $0.3{\sim}1.0$ 8A (CDH38D09/SLD)

· Custom design is available.

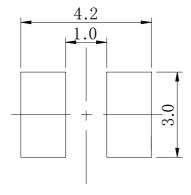
◆ Feature

- · Magnetically unshielded construction.
- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, HDD, etc as DC-DC Converter inductors.
- · RoHS Compliance

Dimensions (mm)



◆ Land Pattern (mm)







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◆ Specification(CDH38D09)

Part Name **	Stamp	Inductance (D.C.R.(Ω) Max.(Typ.) (20℃)	Saturation Current (A) %1-1		Temperature Rise current
*				20 ℃	105℃	(A) ※2
CDH38D09NP-1R2M□	1R2	1.2±20%	0.14(0.11)	1.90	1.60	1.35
CDH38D09NP-1R5M□	1R5	1.5±20%	0.16(0.13)	1.70	1.40	1.25
CDH38D09NP-2R2M□	2R2	2.2±20%	0.19(0.15)	1.50	1.25	1.15
CDH38D09NP-2R7M□	2R7	2.7±20%	0.21(0.17)	1.35	1.15	1.10
CDH38D09NP-3R3M□	3R3	3.3±20%	0.24(0.19)	1.25	1.00	1.00
CDH38D09NP-4R7M□	4R7	4.7±20%	0.30(0.24)	1.10	0.85	0.95
CDH38D09NP-6R8M□	6R8	6.8±20%	0.39(0.31)	0.90	0.72	0.85
CDH38D09NP-8R2M□	8R2	8.2±20%	0.50(0.40)	0.80	0.65	0.75
CDH38D09NP-100M□	100	10.0±20%	0.58(0.47)	0.7	0.60	0.70
CDH38D09NP-150M□	150	15.0±20%	0.87(0.69)	0.60	0.50	0.55
CDH38D09NP-220M□	220	$22.0 \pm 20\%$	1.14(0.91)	0.50	0.40	0.45

◆Specification (CDH38D09/SHP)

Part Name ※	Stamp	Inductance (D.C.R.(mΩ) (20℃)	Saturation Current (A) %1-2	Temperature Rise current (A) ※2
CDH38D09SHPNP-2R5M□	2R5	2.5±20%	110±20%	1.60	1.6
CDH38D09SHPNP-3R3M□	3R3	$3.3 \pm 20\%$	132±20%	1.48	1.45
CDH38D09SHPNP-3R8M□	3R8	$3.8 \pm 20\%$	165±20%	1.30	1.30
CDH38D09SHPNP-4R7M□	4R7	$4.7 \pm 20\%$	185±20%	1.24	1.22
CDH38D09SHPNP-5R4M□	5R4	5.4±20%	245±20%	1.08	1.08
CDH38D09SHPNP-6R0M□	6R0	$6.0\pm20\%$	270±20%	1.04	1.00
CDH38D09SHPNP-7R4M□	7R4	$7.4 \pm 20\%$	335±20%	0.88	0.9
CDH38D09SHPNP-8R2M□	8R2	8.2±20%	365±20%	0.84	0.85
CDH38D09SHPNP-100M□	100	10±20%	472±20%	0.75	0.78
CDH38D09SHPNP-120M□	120	12±20%	543±20%	0.66	0.74
CDH38D09SHPNP-150M□	150	15±20%	612±20%	0.6	0.68
CDH38D09SHPNP-180M□	180	18±20%	896±20%	0.56	0.55
CDH38D09SHPNP-220M□	220	22±20%	983±20%	0.52	0.53



Type: CDH38D09, CDH38D09/SHP, CDH38D09/SLD

◆ Specification (CDH38D09/SLD)

Part Name ※	Stamp	Inductance (µ H) 100kHz/1V	D.C.R.(mΩ) (20℃)	Saturation Current (A) ※1-2	Temperature Rise current (A) ※2
CDH38D09SLDNP-2R7M□	2R7	2.7±20%	98±20%	1.08	1.70
CDH38D09SLDNP-3R3M□	3R3	3.3±20%	110±20%	0.90	1.60
CDH38D09SLDNP-3R9M□	3R9	$3.9 \pm 20\%$	125±20%	0.80	1.48
CDH38D09SLDNP-4R7M□	4R7	4.7±20%	140±20%	0.76	1.40
CDH38D09SLDNP-5R4M□	5R4	5.4±20%	175±20%	0.74	1.20
CDH38D09SLDNP-6R4M□	6R4	6.4±20%	195±20%	0.70	1.16
CDH38D09SLDNP-6R8M□	6R8	6.8±20%	210±20%	0.66	1.12
CDH38D09SLDNP-8R2M□	8R2	8.2±20%	274±20%	0.60	0.98
CDH38D09SLDNP-100M□	100	10±20%	320±20%	0.57	0.92
CDH38D09SLDNP-120M□	120	12±20%	385±20%	0.50	0.85
CDH38D09SLDNP-150M□	150	15±20%	439±20%	0.46	0.78
CDH38D09SLDNP-180M□	180	18±20%	588±20%	0.42	0.68
CDH38D09SLDNP-220M□	220	22±20%	650±20%	0.37	0.62
CDH38D09SLDNP-270M□	270	27±20%	930±20%	0.33	0.55
CDH38D09SLDNP-330M□	330	33±20%	1049±20%	0.30	0.50

X Description of part name

CDH38D09SHPNP-2R5M	<u> </u>	В	Box
		С	Carrier Tape

X1-1. Saturation Current: The DC current at which the inductance decreases to 65% of its nominal value.

X1-2. Saturation Current: The DC current at which the inductance decreases to 70% of its nominal value.

 $[\]times$ 2 Temperature rise current: The DC current at which the temperature rise is $\triangle t = 40^{\circ}\text{C}(Ta = 20^{\circ}\text{C})$