

## FEATURES

- To be high saturation for surface mounting.
- Surface mount inductor with high current rating.
- Low resistance to keep powerloss minimum.
- Packed in embossed carrier tape and can be used by automatic mounting machine.



## APPLICATIONS

- Ideally used in Notebook PC, LCD TV,DVD, Game machine, STB ,Projector etc as DC-DC converter inductors.

## PRODUCT IDENTIFICATION

$\frac{\text{CDRH}}{a} \frac{74}{b} - \frac{100}{c} \frac{M}{d} - \frac{T}{e}$

a: Series name

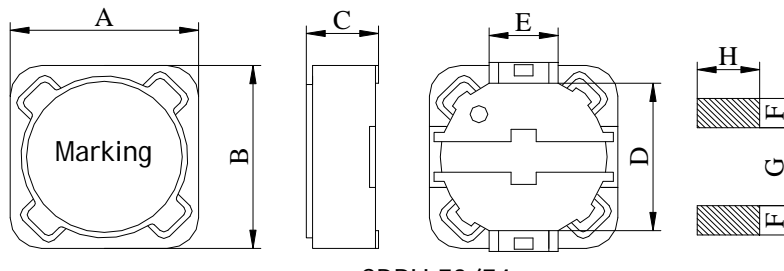
b: Product dimensions (A X B)

c: Inductance Value (4R7:4.7uH; 100: 10uH; 101:100uH)

d: Inductance Tolerance (K: 10%; M: 20%; N: 30%)

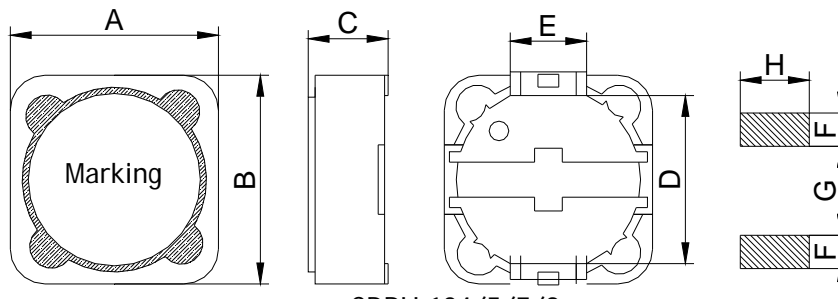
e: Packaging style (T: Taping; B: bulk)

## SHAPES AND DIMENSIONS



CDRH 73/74

Series	Dimensions(mm)							
	A	B	C	D	E	F	G	H
CDRH73	7.3±0.3	7.3±0.3	3.5 Max.	5.4±0.2	1.8	1.6	4.8	2.2
CDRH74	7.3±0.3	7.3±0.3	4.5 Max.	5.4±0.2	1.8	1.6	4.8	2.2



CDRH 124/5/7/9

Series	Dimensions(mm)							
	A	B	C	D	E	F	G	H
CDRH124	12.0±0.3	12.0±0.3	4.5 Max.	7.6±0.2	5.0	2.8	7.0	5.4
CDRH125	12.0±0.3	12.0±0.3	6.0 Max.	7.6±0.2	5.0	2.8	7.0	5.4
CDRH127	12.0±0.3	12.0±0.3	8.0 Max.	7.6±0.2	5.0	2.8	7.0	5.4
CDRH129	12.0±0.3	12.0±0.3	10.0 Max.	7.6±0.2	5.0	2.8	7.0	5.4

Note: Beyond the above specification also could satisfy the special requirement

**ELECTRICAL CHARACTERISTICS**

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
CDRH73-1R0NT	1.0	100	0.016	7.97
CDRH73-1R5NT	1.5	100	0.023	5.50
CDRH73-2R2NT	2.2	100	0.027	4.50
CDRH73-3R3NT	3.3	100	0.031	4.00
CDRH73-3R9NT	3.9	100	0.041	3.80
CDRH73-4R7NT	4.7	100	0.048	3.50
CDRH73-5R6NT	5.6	100	0.056	3.00
CDRH73-6R8NT	6.8	100	0.062	2.50
CDRH73-100NT	10	100	0.072	1.68
CDRH73-120MT	12	100	0.098	1.52
CDRH73-150MT	15	100	0.130	1.33
CDRH73-180MT	18	100	0.140	1.20
CDRH73-220MT	22	100	0.190	1.07
CDRH73-270MT	27	100	0.210	0.96
CDRH73-330MT	33	100	0.240	0.91
CDRH73-390MT	39	100	0.320	0.77
CDRH73-470MT	47	100	0.360	0.76
CDRH73-560MT	56	100	0.470	0.68
CDRH73-680MT	68	100	0.520	0.61
CDRH73-820MT	82	100	0.690	0.57
CDRH73-101MT	100	100	0.790	0.50
CDRH73-121MT	120	100	0.890	0.49
CDRH73-151MT	150	100	1.270	0.43
CDRH73-181MT	180	100	1.450	0.39
CDRH73-221MT	220	100	1.650	0.35
CDRH73-271MT	270	100	2.310	0.32
CDRH73-331MT	330	100	2.620	0.28
CDRH73-391MT	390	100	2.940	0.26
CDRH73-471MT	470	100	4.180	0.24
CDRH73-561MT	560	100	4.670	0.22
CDRH73-681MT	680	100	5.730	0.19
CDRH73-821MT	820	100	6.540	0.18
CDRH73-102MT	1000	100	9.440	0.16

Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when  $\Delta t=40^{\circ}\text{C}$ , whichever is lower

Note: Beyond the above specification also could satisfy the special requirement

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
CDRH74-1R0NT	1.0	100	0.015	9.00
CDRH74-1R5NT	1.5	100	0.018	7.00
CDRH74-2R2NT	2.2	100	0.028	6.00
CDRH74-3R3NT	3.3	100	0.032	4.80
CDRH74-3R9NT	3.9	100	0.035	4.40
CDRH74-4R7NT	4.7	100	0.038	4.00
CDRH74-5R6NT	5.6	100	0.040	3.50
CDRH74-6R8NT	6.8	100	0.045	3.00
CDRH74-100NT	10	100	0.060	1.84
CDRH74-120MT	12	100	0.065	1.71
CDRH74-150MT	15	100	0.081	1.47
CDRH74-180MT	18	100	0.091	1.31
CDRH74-220MT	22	100	0.110	1.23
CDRH74-270MT	27	100	0.150	1.12
CDRH74-330MT	33	100	0.170	0.96
CDRH74-390MT	39	100	0.230	0.91
CDRH74-470MT	47	100	0.260	0.88
CDRH74-560MT	56	100	0.350	0.80
CDRH74-680MT	68	100	0.380	0.70
CDRH74-820MT	82	100	0.430	0.61
CDRH74-101MT	100	100	0.610	0.60
CDRH74-121MT	120	100	0.660	0.52
CDRH74-151MT	150	100	0.880	0.46
CDRH74-181MT	180	100	0.980	0.42
CDRH74-221MT	220	100	1.170	0.36
CDRH74-271MT	270	100	1.640	0.34
CDRH74-331MT	330	100	1.860	0.32
CDRH74-391MT	390	100	2.850	0.29
CDRH74-471MT	470	100	3.010	0.26
CDRH74-561MT	560	100	3.620	0.23
CDRH74-681MT	680	100	4.630	0.22
CDRH74-821MT	820	100	5.200	0.20
CDRH74-102MT	1000	100	6.000	0.18

Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when  $\Delta t=40^{\circ}\text{C}$ , whichever is lower

Note: Beyond the above specification also could satisfy the special requirement

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
CDRH124-1R0NT	1.0	100	0.008	7.80
CDRH124-2R2NT	2.2	100	0.013	6.00
CDRH124-3R3NT	3.3	100	0.018	5.40
CDRH124-4R7NT	4.7	100	0.022	4.80
CDRH124-5R6NT	5.6	100	0.023	4.30
CDRH124-6R8NT	6.8	100	0.026	4.20
CDRH124-100NT	10	100	0.039	3.90
CDRH124-120MT	12	1.00	0.044	3.40
CDRH124-150MT	15	1.00	0.055	3.20
CDRH124-180MT	18	1.00	0.065	2.90
CDRH124-220MT	22	1.00	0.075	2.50
CDRH124-270MT	27	1.00	0.086	2.25
CDRH124-330MT	33	1.00	0.112	2.00
CDRH124-390MT	39	1.00	0.121	1.90
CDRH124-470MT	47	1.00	0.166	1.80
CDRH124-560MT	56	1.00	0.182	1.70
CDRH124-680MT	68	1.00	0.205	1.50
CDRH124-820MT	82	1.00	0.247	1.40
CDRH124-101MT	100	1.00	0.299	1.30

Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when  $\Delta t=40^{\circ}\text{C}$ , whichever is lower

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Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
CDRH125-1R3NT	1.3	100	0.012	8.00
CDRH125-2R1NT	2.1	100	0.014	7.00
CDRH125-3R1NT	3.1	100	0.017	6.00
CDRH125-4R4NT	4.4	100	0.020	5.00
CDRH125-5R8NT	5.8	100	0.021	4.40
CDRH125-7R5NT	7.5	100	0.024	4.20
CDRH125-100NT	10	100	0.025	4.00
CDRH125-120MT	12	1.00	0.027	3.50
CDRH125-150MT	15	1.00	0.030	3.30
CDRH125-180MT	18	1.00	0.034	3.00
CDRH125-220MT	22	1.00	0.036	2.80
CDRH125-270MT	27	1.00	0.051	2.30
CDRH125-330MT	33	1.00	0.057	2.10
CDRH125-390MT	39	1.00	0.068	2.00
CDRH125-470MT	47	1.00	0.075	1.80
CDRH125-560MT	56	1.00	0.110	1.70
CDRH125-680MT	68	1.00	0.120	1.50
CDRH125-820MT	82	1.00	0.140	1.40
CDRH125-101MT	100	1.00	0.160	1.30
CDRH125-121MT	120	1.00	0.170	1.10
CDRH125-151MT	150	1.00	0.230	1.00
CDRH125-181MT	180	1.00	0.290	0.90
CDRH125-221MT	220	1.00	0.400	0.80
CDRH125-271MT	270	1.00	0.460	0.75
CDRH125-331MT	330	1.00	0.510	0.68
CDRH125-391MT	390	1.00	0.690	0.65
CDRH125-471MT	470	1.00	0.770	0.58
CDRH125-561MT	560	1.00	0.860	0.54
CDRH125-681MT	680	1.00	1.200	0.48
CDRH125-821MT	820	1.00	1.340	0.43
CDRH125-102MT	1000	1.00	1.530	0.40

Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when  $\Delta t=40^{\circ}\text{C}$ , whichever is lower

Note: Beyond the above specification also could satisfy the special requirement

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
CDRH127-1R2NT	1.2	100	0.007	9.80
CDRH127-2R4NT	2.4	100	0.012	8.00
CDRH127-3R5NT	3.5	100	0.014	7.50
CDRH127-4R7NT	4.7	100	0.016	6.80
CDRH127-6R1NT	6.1	100	0.018	6.60
CDRH127-7R6NT	7.6	100	0.020	5.90
CDRH127-100NT	10	1.00	0.022	5.40
CDRH127-120MT	12	1.00	0.024	4.90
CDRH127-150MT	15	1.00	0.030	4.50
CDRH127-180MT	18	1.00	0.039	3.90
CDRH127-220MT	22	1.00	0.043	3.60
CDRH127-270MT	27	1.00	0.046	3.40
CDRH127-330MT	33	1.00	0.065	3.00
CDRH127-390MT	39	1.00	0.073	2.75
CDRH127-470MT	47	1.00	0.100	2.50
CDRH127-560MT	56	1.00	0.110	2.35
CDRH127-680MT	68	1.00	0.140	2.10
CDRH127-820MT	82	1.00	0.160	1.95
CDRH127-101MT	100	1.00	0.220	1.70
CDRH127-121MT	120	1.00	0.250	1.60
CDRH127-151MT	150	1.00	0.280	1.42
CDRH127-181MT	180	1.00	0.350	1.30
CDRH127-221MT	220	1.00	0.390	1.16
CDRH127-271MT	270	1.00	0.560	1.06
CDRH127-331MT	330	1.00	0.640	0.95
CDRH127-391MT	390	1.00	0.700	0.88
CDRH127-471MT	470	1.00	0.980	0.79
CDRH127-561MT	560	1.00	1.070	0.73
CDRH127-681MT	680	1.00	1.460	0.67
CDRH127-821MT	820	1.00	1.640	0.60
CDRH127-102MT	1000	1.00	1.820	0.55

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Note: Beyond the above specification also could satisfy the special requirement

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat(A)	Irms(A)
CDRH129-1R0NT	1.0	100	0.006	19.90	11.60
CDRH129-1R8NT	1.8	100	0.007	13.40	11.00
CDRH129-2R5NT	2.5	100	0.008	12.16	10.30
CDRH129-3R5NT	3.5	100	0.010	12.00	8.70
CDRH129-4R7NT	4.7	100	0.011	10.08	8.40
CDRH129-6R8NT	6.8	100	0.013	8.56	7.10
CDRH129-7R5NT	7.5	100	0.014	8.48	6.80
CDRH129-100NT	10	1.00	0.018	7.12	6.95
CDRH129-120MT	12	1.00	0.019	7.04	6.20
CDRH129-150MT	15	1.00	0.026	5.84	5.22
CDRH129-180MT	18	1.00	0.028	5.48	5.08
CDRH129-220MT	22	1.00	0.029	5.12	4.95
CDRH129-270MT	27	1.00	0.042	4.68	4.27
CDRH129-330MT	33	1.00	0.053	4.25	3.60
CDRH129-390MT	39	1.00	0.058	3.92	3.52
CDRH129-470MT	47	1.00	0.063	3.60	3.45
CDRH129-560MT	56	1.00	0.068	2.85	2.95
CDRH129-680MT	68	1.00	0.093	2.76	2.85
CDRH129-820MT	82	1.00	0.099	2.62	2.60
CDRH129-101MT	100.	1.00	0.126	2.31	2.45
CDRH129-121MT	120	1.00	0.154	2.05	2.20
CDRH129-151MT	150	1.00	0.174	1.80	1.90
CDRH129-181MT	180	1.00	0.191	1.66	1.86
CDRH129-221MT	220	1.00	0.246	1.64	1.72
CDRH129-271MT	270	1.00	0.314	1.46	1.50
CDRH129-331MT	330	1.00	0.386	1.28	1.28
CDRH129-391MT	390	1.00	0.428	1.17	1.26
CDRH129-471MT	470	1.00	0.471	1.06	1.25
CDRH129-561MT	560	1.00	0.650	1.01	0.98
CDRH129-681MT	680	1.00	0.730	0.83	0.96
CDRH129-821MT	820	1.00	0.824	0.81	0.94
CDRH129-102MT	1000	1.00	1.220	0.70	0.78
CDRH129-122MT	1200	1.00	1.330	0.64	0.69
CDRH129-152MT	1500	1.00	1.990	0.56	0.58
CDRH129-182MT	1800	1.00	2.180	0.48	0.54
CDRH129-222MT	2200	1.00	2.580	0.43	0.52

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Note: Beyond the above specification also could satisfy the special requirement