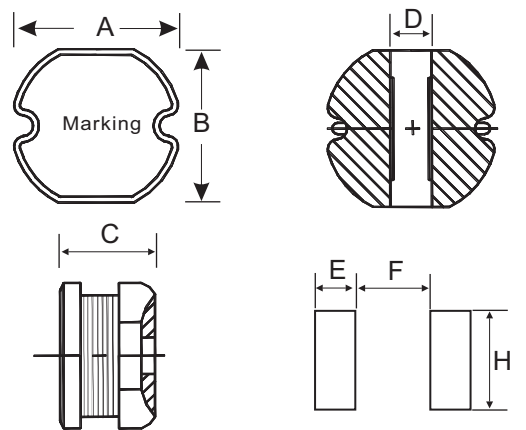


SMT Power Inductors



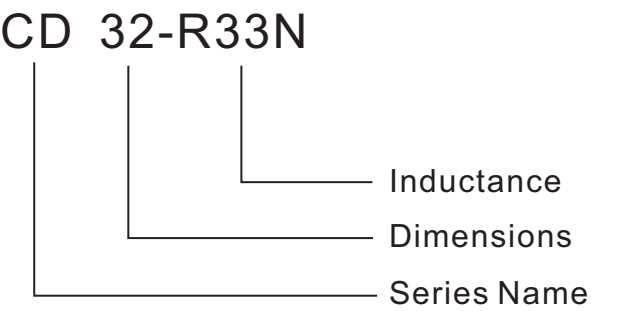
Recommended Land Pattern

Dimensions and Footprint (Unit:mm)							
Type	A	B	C	D(Ref.)	E	F	H
CD31	3.5±0.3	3.0±0.3	1.1±0.2	1	1.6	0.8	3.5
CD316	3.5±0.3	3.0±0.3	1.6±0.2	1	1.6	0.8	3.5
CD32	3.5±0.3	3.0±0.3	2.1±0.3	1	1.6	0.8	3.5
CD42	4.5±0.3	4.0±0.3	2.1±0.3	1.4	1.75	1.2	4.5
CD43	4.5±0.3	4.0±0.3	3.2±0.3	1.4	1.75	1.2	4.5
CD52	5.8±0.3	5.2±0.3	2.1±0.3	1.6	2.15	1.7	5.5
CD525	5.8±0.3	5.2±0.3	2.5±0.3	1.6	2.15	1.7	5.5
CD53	5.8±0.3	5.2±0.3	3.2±0.3	1.6	2.15	1.7	5.5
CD54	5.8±0.3	5.2±0.3	4.5±0.3	1.6	2.15	1.7	5.5
CD73	7.8±0.3	7.0±0.3	3.0±0.3	3	3	2	7.5
CD75	7.8±0.3	7.0±0.3	5.0±0.3	3	3	2	7.5
CD104	10±0.3	9.0±0.3	4.0±0.3	3	3.75	2.5	9.5
CD105	10±0.3	9.0±0.3	5.4±0.3	3	3.75	2.5	9.5

Description

- Rugged, cost-effective power inductors, low DCR
- Applications: Power supply for TVR, OA equipment, Digital camera, LCD television set, notebook PC, etc.

Part Number Code



Electrical Specifications-CD31

P/N	INDUCTANCE (uH)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD31-R33N	0.33±30%	0.65	0.65	100
CD31-R47N	0.47±30%	0.72	0.62	100
CD31-R56N	0.56±30%	0.76	0.56	100
CD31-R68N	0.68±30%	0.78	0.55	100
CD31-R82N	0.82±30%	0.80	0.5	100
CD31-2R2M	2.2±20%	0.90	0.4	100
CD31-4R7M	4.7±20%	1.00	0.35	100
CD31-6R8M	6.8±20%	1.08	0.30	100
CD31-100K	10±10%	1.25	0.18	100
CD31-120K	12±10%	1.28	0.17	100
CD31-150K	15±10%	1.42	0.17	100
CD31-180K	18±10%	1.65	0.16	100
CD31-220K	22±10%	1.72	0.16	100
CD31-250K	25±10%	1.82	0.15	100
CD31-330K	33±10%	2.00	0.15	100
CD31-470K	47±10%	2.15	0.15	100

Electrical Specifications-CD316

P/N	INDUCTANCE (uH)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD316-3R3L	3.3±15%	0.5	0.75	100
CD316-4R7L	4.7±15%	0.62	0.72	100
CD316-5R6L	5.6±15%	0.65	0.69	100
CD316-6R8L	6.8±15%	0.67	0.65	100
CD316-8R2L	8.2±15%	0.72	0.63	100
CD316-100K	10±10%	1.15	0.45	100
CD316-120K	12±10%	1.28	0.43	100
CD316-150K	15±10%	1.32	0.40	100
CD316-180K	18±10%	1.45	0.38	100
CD316-220K	22±10%	1.55	0.35	100
CD316-250K	25±10%	1.62	0.33	100
CD316-330K	33±10%	1.70	0.28	100
CD316-470K	47±10%	1.75	0.25	100
CD316-560K	56±10%	1.82	0.22	100
CD316-680K	68±10%	1.88	0.20	100
CD316-820K	82±10%	1.92	0.18	100
CD316-101K	100±10%	2.00	0.17	100
CD316-221K	220±10%	2.10	0.14	100
CD316-331K	330±10%	2.18	0.14	100
CD316-391K	390±10%	2.45	0.13	100

Electrical Specifications-CD32

P/N	INDUCTANCE (μ H)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD32-1R0M	1.0 $\pm$ 20%	0.045	2.2	100
CD32-1R2M	1.2 $\pm$ 20%	0.05	2.1	100
CD32-1R5M	1.5 $\pm$ 20%	0.055	1.7	100
CD32-1R8M	1.8 $\pm$ 20%	0.07	1.65	100
CD32-2R2M	2.2 $\pm$ 20%	0.085	1.6	100
CD32-2R7M	2.7 $\pm$ 20%	0.1	1.4	100
CD32-3R3M	3.3 $\pm$ 20%	0.12	1.05	100
CD32-3R9M	3.9 $\pm$ 20%	0.125	1	100
CD32-4R7L	4.7 $\pm$ 15%	0.135	1	100
CD32-5R6L	5.6 $\pm$ 15%	0.145	0.97	100
CD32-6R8L	6.8 $\pm$ 15%	0.20	0.95	100
CD32-8R2L	8.2 $\pm$ 15%	0.21	0.92	100
CD32-100K	10 $\pm$ 10%	0.23	0.86	100
CD32-120K	12 $\pm$ 10%	0.27	0.78	100
CD32-150K	15 $\pm$ 10%	0.31	0.73	100
CD32-180K	18 $\pm$ 10%	0.41	0.72	100
CD32-220K	22 $\pm$ 10%	0.47	0.70	100
CD32-270K	27 $\pm$ 10%	0.66	0.41	100
CD32-330K	33 $\pm$ 10%	0.76	0.38	100
CD32-390K	39 $\pm$ 10%	0.85	0.35	100
CD32-470K	47 $\pm$ 10%	0.97	0.33	100
CD32-560K	56 $\pm$ 10%	1.25	0.29	100
CD32-680K	68 $\pm$ 10%	1.45	0.27	100
CD32-820K	82 $\pm$ 10%	1.85	0.23	100
CD32-101K	100 $\pm$ 10%	2.20	0.22	100
CD32-121K	120 $\pm$ 10%	2.90	0.18	100
CD32-151K	150 $\pm$ 10%	3.40	0.17	100
CD32-181K	180 $\pm$ 10%	3.90	0.16	100
CD32-221K	220 $\pm$ 10%	4.50	0.15	100
CD32-271K	270 $\pm$ 10%	6.00	0.13	100
CD32-331K	330 $\pm$ 10%	7.00	0.12	100
CD32-391K	390 $\pm$ 10%	7.80	0.11	100

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -35\%$, $\Delta t = 40^\circ\text{C}$.

Electrical Specifications-CD42

P/N	INDUCTANCE (μ H)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD42-1R0M	1.0 $\pm$ 20%	0.03	2.5	100
CD42-1R5M	1.5 $\pm$ 20%	0.04	2.3	100
CD42-1R8M	1.8 $\pm$ 20%	0.05	2	100
CD42-2R2M	2.2 $\pm$ 20%	0.06	1.8	100
CD42-3R3M	3.3 $\pm$ 20%	0.08	1.5	100
CD42-4R7L	4.7 $\pm$ 15%	0.1	1.2	100
CD42-6R8L	6.8 $\pm$ 15%	0.13	1	100
CD42-100K	10 $\pm$ 10%	0.15	0.80	100
CD42-150K	15 $\pm$ 10%	0.33	0.70	100
CD42-220K	22 $\pm$ 10%	0.48	0.60	100
CD42-330K	33 $\pm$ 10%	0.65	0.55	100
CD42-390K	39 $\pm$ 10%	0.70	0.50	100
CD42-470K	47 $\pm$ 10%	0.95	0.40	100
CD42-680K	68 $\pm$ 10%	1.35	0.30	100
CD42-101K	100 $\pm$ 10%	1.71	0.25	100
CD42-151K	150 $\pm$ 10%	2.53	0.24	100
CD42-221K	220 $\pm$ 10%	3.20	0.23	100
CD42-331K	330 $\pm$ 10%	5.50	0.20	100
CD42-391K	390 $\pm$ 10%	6.82	0.18	100
CD42-471K	470 $\pm$ 10%	7.78	0.15	100

Electrical Specifications-CD43

P/N	INDUCTANCE (μ H)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD43-1R0M	1.0 $\pm$ 20%	0.03	3.8	100
CD43-1R4M	1.4 $\pm$ 20%	0.04	3.3	100
CD43-1R8M	1.8 $\pm$ 20%	0.04	2.9	100
CD43-2R2M	2.2 $\pm$ 20%	0.04	2.6	100
CD43-2R7M	2.7 $\pm$ 20%	0.05	2.4	100
CD43-3R3M	3.3 $\pm$ 20%	0.06	2.1	100
CD43-3R9M	3.9 $\pm$ 20%	0.07	1.9	100
CD43-4R7L	4.7 $\pm$ 15%	0.09	1.7	100
CD43-5R6L	5.6 $\pm$ 15%	0.1	1.6	100
CD43-6R8L	6.8 $\pm$ 15%	0.11	1.4	100
CD43-8R2L	8.2 $\pm$ 15%	0.13	1.2	100
CD43-100K	10 $\pm$ 10%	0.18	1.10	100
CD43-120K	12 $\pm$ 10%	0.21	1.00	100
CD43-150K	15 $\pm$ 10%	0.23	0.92	100
CD43-180K	18 $\pm$ 10%	0.33	0.84	100
CD43-220K	22 $\pm$ 10%	0.37	0.76	100
CD43-270K	27 $\pm$ 10%	0.52	0.71	100
CD43-330K	33 $\pm$ 10%	0.54	0.64	100
CD43-390K	39 $\pm$ 10%	0.58	0.59	100
CD43-470K	47 $\pm$ 10%	0.84	0.54	100
CD43-560K	56 $\pm$ 10%	0.93	0.50	100
CD43-680K	68 $\pm$ 10%	1.11	0.48	100

Electrical Specifications-CD52

P/N	INDUCTANCE (μ H)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD52-100K	10 $\pm$ 10%	0.13	1.00	100
CD52-120K	12 $\pm$ 10%	0.14	0.96	100
CD52-150K	15 $\pm$ 10%	0.16	0.88	100
CD52-180K	18 $\pm$ 10%	0.21	0.77	100
CD52-220K	22 $\pm$ 10%	0.24	0.73	100
CD52-270K	27 $\pm$ 10%	0.32	0.64	100
CD52-330K	33 $\pm$ 10%	0.37	0.58	100
CD52-390K	39 $\pm$ 10%	0.43	0.49	100
CD52-470K	47 $\pm$ 10%	0.54	0.45	100
CD52-560K	56 $\pm$ 10%	0.62	0.41	100
CD52-680K	68 $\pm$ 10%	0.71	0.35	100
CD52-820K	82 $\pm$ 10%	1.00	0.33	100
CD52-101K	100 $\pm$ 10%	1.08	0.32	100
CD52-121K	120 $\pm$ 10%	1.25	0.26	100
CD52-151K	150 $\pm$ 10%	1.66	0.23	100
CD52-181K	180 $\pm$ 10%	1.90	0.23	100
CD52-221K	220 $\pm$ 10%	2.44	0.21	100

Electrical Specifications-CD525

P/N	INDUCTANCE (μ H)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD525-100K	10 $\pm$ 10%	0.13	1.24	100
CD525-120K	12 $\pm$ 10%	0.14	1.04	100
CD525-150K	15 $\pm$ 10%	0.16	0.90	100
CD525-180K	18 $\pm$ 10%	0.21	0.82	100
CD525-220K	22 $\pm$ 10%	0.24	0.79	100
CD525-270K	27 $\pm$ 10%	0.32	0.68	100
CD525-330K	33 $\pm$ 10%	0.37	0.60	100
CD525-390K	39 $\pm$ 10%	0.43	0.58	100
CD525-470K	47 $\pm$ 10%	0.54	0.55	100
CD525-560K	56 $\pm$ 10%	0.61	0.50	100
CD525-680K	68 $\pm$ 10%	0.70	0.46	100
CD525-820K	82 $\pm$ 10%	0.90	0.40	100
CD525-101K	100 $\pm$ 10%	1.00	0.37	100
CD525-121K	120 $\pm$ 10%	1.15	0.34	100
CD525-151K	150 $\pm$ 10%	1.36	0.30	100
CD525-181K	180 $\pm$ 10%	1.60	0.27	100
CD525-221K	220 $\pm$ 10%	2.30	0.24	100

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -35\%$, $\Delta t = 40^\circ\text{C}$.

Electrical Specifications-CD53

P/N	INDUCTANCE (uH)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD53-100K	10±10%	0.12	1.80	100
CD53-120K	12±10%	0.13	1.75	100
CD53-150K	15±10%	0.15	1.70	100
CD53-180K	18±10%	0.18	1.60	100
CD53-220K	22±10%	0.22	1.50	100
CD53-270K	27±10%	0.24	1.40	100
CD53-330K	33±10%	0.30	1.10	100
CD53-390K	39±10%	0.40	1.00	100
CD53-470K	47±10%	0.43	0.90	100
CD53-560K	56±10%	0.50	0.85	100
CD53-680K	68±10%	0.60	0.80	100
CD53-820K	82±10%	0.80	0.65	100
CD53-101K	100±10%	0.90	0.58	100
CD53-121K	120±10%	1.00	0.43	100
CD53-151K	150±10%	1.30	0.41	100
CD53-181K	180±10%	1.50	0.38	100
CD53-221K	220±10%	2.00	0.35	100
CD53-102K	1000±10%	8.00	0.13	100

Electrical Specifications-CD54

P/N	INDUCTANCE (uH)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD54-100K	10±10%	0.10	1.44	100
CD54-120K	12±10%	0.12	1.40	100
CD54-150K	15±10%	0.14	1.30	100
CD54-180K	18±10%	0.15	1.23	100
CD54-220K	22±10%	0.18	1.11	100
CD54-270K	27±10%	0.20	0.98	100
CD54-330K	33±10%	0.23	0.88	100
CD54-390K	39±10%	0.32	0.80	100
CD54-470K	47±10%	0.37	0.72	100
CD54-560K	56±10%	0.42	0.68	100
CD54-680K	68±10%	0.46	0.64	100
CD54-820K	82±10%	0.60	0.58	100
CD54-101K	100±10%	0.70	0.52	100
CD54-121K	120±10%	0.93	0.48	100
CD54-151K	150±10%	1.10	0.40	100
CD54-181K	180±10%	1.38	0.38	100
CD54-221K	220±10%	1.57	0.35	100
CD54-102K	1000±10%	4.80	0.14	100

Electrical Specifications-CD73

P/N	INDUCTANCE (uH)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD73-100K	10±10%	0.08	1.40	100
CD73-120K	12±10%	0.09	1.24	100
CD73-150K	15±10%	0.10	1.11	100
CD73-180K	18±10%	0.11	1.10	100
CD73-220K	22±10%	0.13	1.00	100
CD73-270K	27±10%	0.15	0.94	100
CD73-330K	33±10%	0.17	0.85	100
CD73-390K	39±10%	0.22	0.74	100
CD73-470K	47±10%	0.25	0.68	100
CD73-560K	56±10%	0.28	0.64	100
CD73-680K	68±10%	0.33	0.59	100
CD73-820K	82±10%	0.41	0.54	100
CD73-101K	100±10%	0.48	0.51	100
CD73-121K	120±10%	0.54	0.49	100
CD73-151K	150±10%	0.75	0.40	100
CD73-181K	180±10%	1.02	0.36	100
CD73-221K	220±10%	1.20	0.31	100
CD73-271K	270±10%	1.30	0.29	100
CD73-331K	330±10%	1.50	0.28	100

Electrical Specifications-CD75

P/N	INDUCTANCE (uH)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD75-100K	10±10%	0.07	2.30	100
CD75-120K	12±10%	0.08	2.00	100
CD75-150K	15±10%	0.09	1.80	100
CD75-180K	18±10%	0.10	1.60	100
CD75-220K	22±10%	0.11	1.50	100
CD75-270K	27±10%	0.12	1.30	100
CD75-330K	33±10%	0.13	1.20	100
CD75-390K	39±10%	0.16	1.10	100
CD75-470K	47±10%	0.18	1.10	100
CD75-560K	56±10%	0.24	0.94	100
CD75-680K	68±10%	0.28	0.85	100
CD75-820K	82±10%	0.37	0.78	100
CD75-101K	100±10%	0.43	0.72	100
CD75-121K	120±10%	0.47	0.66	100
CD75-151K	150±10%	0.64	0.58	100
CD75-181K	180±10%	0.71	0.51	100
CD75-221K	220±10%	0.96	0.49	100
CD75-271K	270±10%	1.11	0.45	100
CD75-331K	330±10%	1.26	0.40	100

Electrical Specifications-CD104

P/N	INDUCTANCE (μ H)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD104-100K	10 $\pm$ 10%	0.05	2.38	100
CD104-120K	12 $\pm$ 10%	0.06	2.13	100
CD104-150K	15 $\pm$ 10%	0.07	1.87	100
CD104-180K	18 $\pm$ 10%	0.08	1.73	100
CD104-220K	22 $\pm$ 10%	0.09	1.60	100
CD104-270K	27 $\pm$ 10%	0.10	1.44	100
CD104-330K	33 $\pm$ 10%	0.12	1.26	100
CD104-390K	39 $\pm$ 10%	0.15	1.20	100
CD104-470K	47 $\pm$ 10%	0.17	1.10	100
CD104-560K	56 $\pm$ 10%	0.19	1.01	100
CD104-680K	68 $\pm$ 10%	0.22	0.90	100
CD104-820K	82 $\pm$ 10%	0.25	0.85	100
CD104-101K	100 $\pm$ 10%	0.34	0.74	100
CD104-121K	120 $\pm$ 10%	0.39	0.69	100
CD104-151K	150 $\pm$ 10%	0.54	0.61	100
CD104-181K	180 $\pm$ 10%	0.62	0.56	100
CD104-221K	220 $\pm$ 10%	0.72	0.53	100
CD104-271K	270 $\pm$ 10%	0.94	0.45	100
CD104-331K	330 $\pm$ 10%	1.10	0.42	100
CD104-391K	390 $\pm$ 10%	1.20	0.38	100
CD104-471K	470 $\pm$ 10%	1.52	0.35	100
CD104-561K	560 $\pm$ 10%	1.90	0.32	100

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -35\%$, $\Delta t = 40^\circ\text{C}$.

Electrical Specifications-CD105

P/N	INDUCTANCE (uH)	DCR(Max) (Ω)	IDC(Max) (A)	TEST FREQ (kHz)
CD105-100K	10±10%	0.06	2.60	100
CD105-120K	12±10%	0.07	2.45	100
CD105-150K	15±10%	0.08	2.27	100
CD105-180K	18±10%	0.09	2.15	100
CD105-220K	22±10%	0.10	1.95	100
CD105-270K	27±10%	0.11	1.76	100
CD105-330K	33±10%	0.12	1.50	100
CD105-390K	39±10%	0.14	1.37	100
CD105-470K	47±10%	0.17	1.28	100
CD105-560K	56±10%	0.19	1.17	100
CD105-680K	68±10%	0.22	1.11	100
CD105-820K	82±10%	0.25	1.00	100
CD105-101K	100±10%	0.34	0.97	100
CD105-121K	120±10%	0.40	0.89	100
CD105-151K	150±10%	0.47	0.78	100
CD105-181K	180±10%	0.62	0.72	100
CD105-221K	220±10%	0.72	0.66	100
CD105-271K	270±10%	0.97	0.57	100
CD105-331K	330±10%	1.10	0.52	100
CD105-391K	390±10%	1.30	0.48	100
CD105-471K	470±10%	1.48	0.42	100
CD105-561K	560±10%	1.90	0.33	100
CD105-681K	680±10%	2.25	0.28	100
CD105-821K	820±10%	2.50	0.24	100

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -35\%$, $\Delta t = 40^\circ\text{C}$.