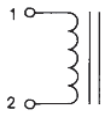
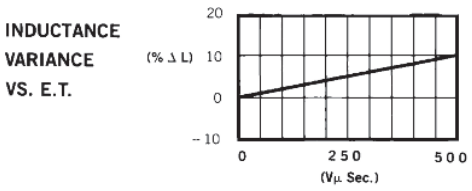
CET LOW POWER INDUCTORS

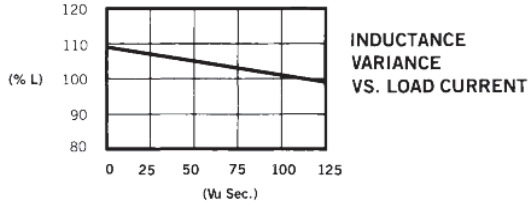
Low Profile Part No.	Vertical Part No.	Typical Inductance	Idc (AMPs)	Max ET (V-μSEC)	Inductance No D.C. (Max.)	DCR (Ω Max.)
CT-52625	CT-52645	150	1.7	80	175	.36
CT-52626	CT-52646	220	1.5	90	255	.38
CT-52627	CT-52647	330	1.0	100	380	.74
CT-52628	CT-52648	470	.90	120	540	1.10
CT-52629	CT-52649	680	.85	175	790	1.25
CT-52630	CT-52650	820	.75	175	950	2.30
CT-52631	CT-52651	1000	.50	175	1150	2.40

Schematic:

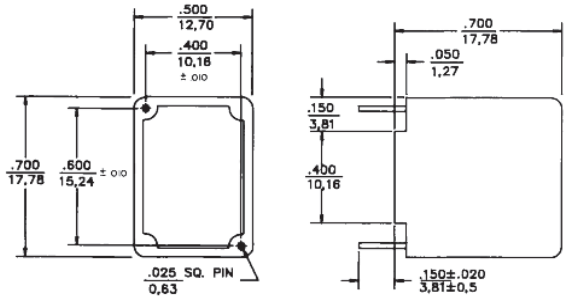


TYP. INDUCTANCE CHARACTERISTICS

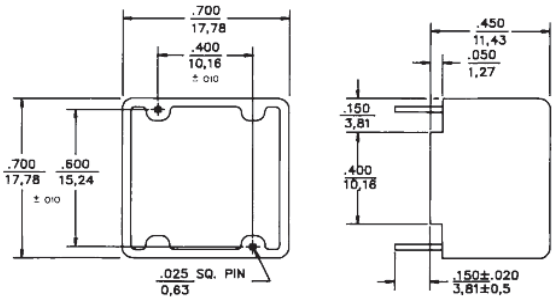




Vertical Package:



Low Profile Package:



Also available with rounded case. Consult factory for both options.

CET TECHNOLOGY, LLC

Toroidal Inductor Series

CET GENERAL PURPOSE LOW COST INDUCTORS

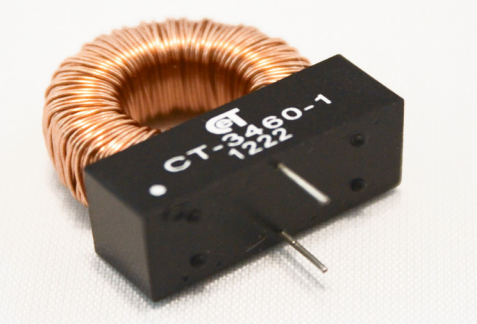
FEATURES:

- Characterized for general purpose use and for ripple filters
- Single layer designs
- Can be used as differential mode inductors in EMI filters
- Mounting package available upon request

ELECTRICAL CHARACTERISTICS AT 25° C

Reference Operating Values					Design Control Values						
Part Number	Clip Mount Option	Inductance Typical (μ Hy)	I_{DC} (AMPS)	ET_{op} (V-μSec)	Inductance No D.C.$_{+20\%}$ (μHy)$_{-12\%}$	1000 Hz Test Volts No D.C.	DCR (Ohms) Max.	Coil Size Code	Clip Mount Package	Lead Dia. (In)$^{+.003}$	Min. Energy Storage (μJ)
CT51591		20	2.0	52	32.8	.0034	.06	H		.020	40
CT92100	C	25	2.5	30	20.7	.0023	.04	A	C1	.020	75
CT92101	C	50	2.5	50	45.7	.0047	.07	B	C2	.020	150
CT92102	C	100	2.5	90	94.1	.0094	.10	C	C3	.020	300
CT92103	C	35	2.5	55	28.4	.0037	.04	B	C2	.025	110
CT92104	C	70	3.0	85	61.0	.0076	.05	C	C3	.025	300
CT92105	C	145	3.0	140	141.8	.015	.09	D	C4	.025	650
CT92106	C	285	3.0	300	264.1	.035	.14	E	C5	.025	1275
CT92107		450	3.0	425	436.3	.053	.20	F		.025	2000
CT92108	C	100	3.5	130	90.7	.012	.04	D	C4	.032	600
CT92109	C	165	4.0	240	152.0	.027	.07	E	C5	.032	1300
CT92110		270	4.0	350	263.9	.041	.10	F		.032	2150
CT92111	C	40	4.0	70	37.9	.006	.03	C	C3	.032	300
CT51590		12	5.0	44	20.3	.0038	.03	G		.032	150
CT92112	C	100	5.0	200	90.7	.021	.04	E		.042	1250
CT92113		170	5.0	300	159.7	.032	.05	F		.042	2100
CT92114	C	55	5.0	100	54.9	.009	.02	D		.042	650
CT92115		95	7.0	225	96.0	.025	.03	F		.051	2300
CT92116	C	55	7.0	150	49.1	.015	.02	E		.051	1300
CT92117		55	10.0	175	55.9	.019	.02	F		.064	2750

GENERAL PURPOSE INDUCTORS



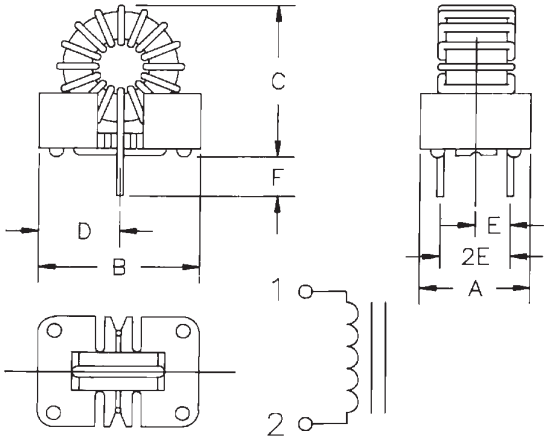
WITH MOUNTING BASE

CLIP MOUNT PACKAGE OPTIONS

Coil Installed on Mounting Base

STANDARD PACKAGE	A	B	C	D	E	F
	Nom.	±.005	Nom.	←—Typical—→		
C1	.340	.578	.60	.29	.110	.110
C2	.450	.648	.65	.325	.150	.110
C3	.450	.828	.85	.415	.150	.110
C4	.600	.948	.95	.475	.225	.110
C5	.700	1.248	1.25	.625	.250	.110

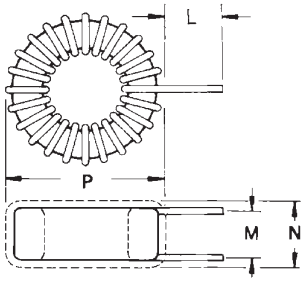
Note: Units with large wire sizes may exceed **B** dimension.



Bare Coil [sizes given in inches (mm)]

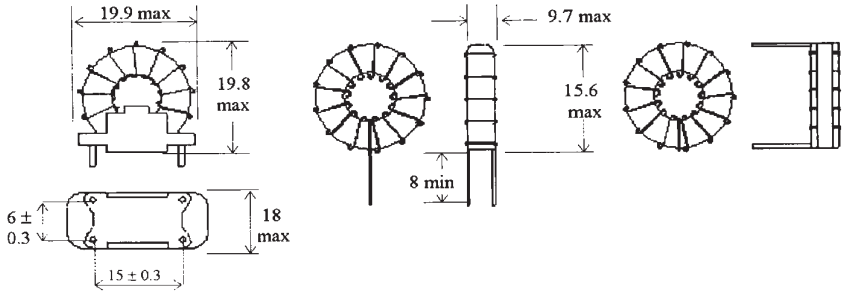
Part Number	Size Code	P Max	N Max	L ±.125 (–0.25)
CT-92100	A	.50 (12.70)	.22 (5.58)	0.375 (9.53)
CT-92103	B	.64 (16.25)	.32 (8.12)	0.375 (9.53)
CT-92111	C	.79 (20.06)	.32 (8.12)	0.375 (9.53)
CT-92114	D	1.00 (25.40)	.49 (12.44)	0.375 (9.53)
CT-92116	E	1.23 (31.24)	.56 (14.22)	0.875 (22.23)
CT-92117	F	1.50 (38.10)	.62 (15.74)	0.875 (22.23)
CT-51590	G	.78 (19.81)	.29 (7.36)	0.75 (19.05)
CT-51591	H	.61 (15.49)	.26 (6.60)	0.75 (19.05)

Note: Dimensions **D** and **H** are typical for part number shown and may vary depending on wire size for other part numbers using same core size.



Leads stripped and Tinned to within .06" of Coil.

TOROIDAL INDUCTORS, 50 SERIES

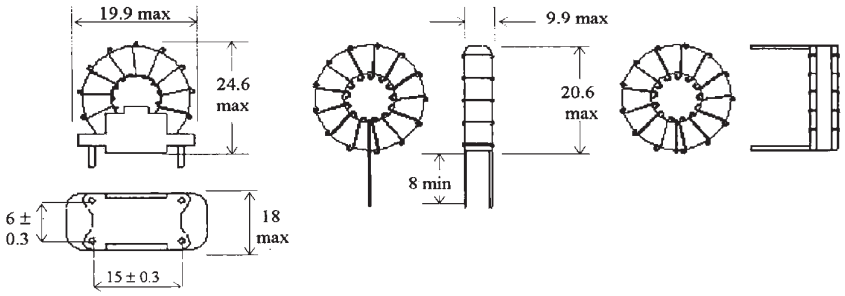


☐ = V (Vertical Base Mount); N (No Base)

Part No.	L_o µH, 0 DC Amps	Rated DC (Amps)	DCR max Ω	DC Amps for % drop in L_o 10%	20%	30%	40%
50☐-1R210R	1.2	10	0.0023	6.25	8.50	11.5	15.0
50☐-1R510R	1.5	10	0.0024	6.25	8.50	11.5	15.0
50☐-1R510R	1.8	10	0.0024	6.25	8.50	11.5	15.0
50☐-2R27R5	2.2	7.5	0.0026	4.69	6.38	8.63	11.3
50☐-2R77R5	2.7	7.5	0.0034	4.69	6.38	8.63	11.3
50☐-3R37R5	3.3	7.5	0.0034	4.69	6.38	8.63	11.3
50☐-3R97R5	3.9	7.5	0.0053	4.69	6.38	8.63	11.3
50☐-4R75R0	4.7	5.0	0.0090	3.13	4.25	5.75	7.50
50☐-5R65R0	5.6	5.0	0.0092	3.13	4.25	5.75	7.50
50☐-6R85R0	6.8	5.0	0.011	3.13	4.25	5.75	7.50
50☐-8R25R0	8.2	5.0	0.012	3.13	4.25	5.75	7.50
50☐-100R45	10	4.5	0.010	2.81	3.83	5.18	6.75
50☐-1204R0	12	4.0	0.014	2.50	3.40	4.60	6.00
50☐-1503R7	15	3.7	0.017	2.34	3.19	4.31	5.63
50☐-1803R5	18	3.5	0.019	2.19	2.98	4.03	5.25
50☐-2203R2	22	3.2	0.024	2.00	2.72	3.68	4.80
50☐-2702R7	27	2.7	0.031	1.72	2.34	3.16	4.13
50☐-3302R5	33	2.5	0.036	1.56	2.13	2.88	3.75
50☐-3902R3	39	2.3	0.045	1.44	1.96	2.65	3.45
50☐-4702R1	47	2.1	0.051	1.31	1.79	2.42	3.15
50☐-5602R0	56	2.0	0.061	1.25	1.70	2.30	3.00
50☐-6801R7	68	1.7	0.076	1.09	1.49	2.01	2.63
50☐-8201R6	82	1.6	0.089	1.00	1.36	1.84	2.40
50☐-1011R5	100	1.5	0.110	0.94	1.28	1.73	2.25
50☐-1211R3	120	1.3	0.130	0.81	1.11	1.50	1.95
50☐-1511R2	150	1.2	0.160	0.75	1.02	1.38	1.80
50☐-1811R1	180	1.1	0.200	0.69	0.94	1.27	1.65
50☐-2211R0	220	1.0	0.240	0.61	0.83	1.13	1.47
50☐-2710R9	270	0.9	0.300	0.56	0.77	1.04	1.35
50☐-3310R8	330	0.8	0.360	0.50	0.68	0.92	1.20
50☐-3910R7	390	0.7	0.440	0.46	0.62	0.84	1.10
50☐-4710R6	470	0.6	0.520	0.42	0.57	0.77	1.01
50☐-5610R6	560	0.6	0.620	0.38	0.51	0.69	0.90
50☐-6810R5	680	0.5	0.760	0.35	0.48	0.64	0.84
50☐-8210R5	820	0.5	0.910	0.31	0.43	0.58	0.75
50☐-1020R5	1000	0.5	1.100	0.29	0.39	0.53	0.69
50☐-1220R5	1200	0.5	1.300	0.26	0.36	0.48	0.63
50☐-1520R4	1500	0.4	1.700	0.24	0.32	0.44	0.57
50☐-1820R4	1800	0.4	2.000	0.21	0.29	0.39	0.51

Inductance is measured on HP 4263A or equivalent.
Operation at rated current results in maximum 40°C temperature rise.
***For custom inductances, current ratings or mounting options, contact* CET.**

TOROIDAL INDUCTORS, 68 SERIES

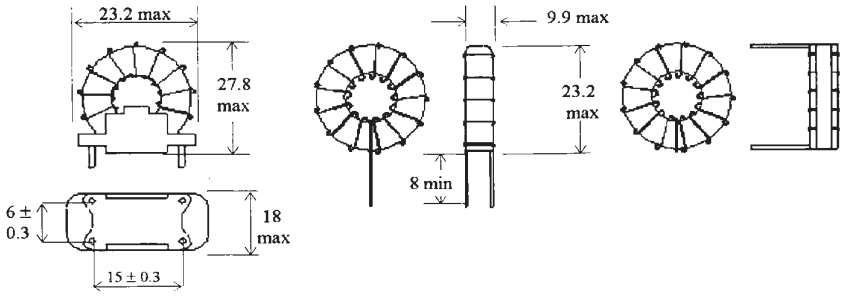


☐ = V (Vertical Base Mount); N (No Base)

Part No.	L_0 µH, 0 DC Amps	Rated DC (Amps)	DCR max Ω	DC Amps for % drop in L_0 10%	20%	30%	40%
68☐-8R27R0	8.2	7.0	0.0068	4.38	5.95	80.5	10.5
68☐-1006R0	10	6.0	0.0092	3.75	5.10	6.90	9.00
68☐-1205R5	12	5.5	0.010	3.44	4.68	6.33	8.25
68☐-1505R0	15	5.0	0.014	3.13	4.25	5.75	7.50
68☐-1805R0	18	5.0	0.015	3.13	4.25	5.75	7.50
68☐-2204R3	22	4.3	0.018	2.69	3.66	4.95	6.45
68☐-2704R0	27	4.0	0.021	2.50	3.40	4.60	6.00
68☐-3303R5	33	3.5	0.028	2.19	2.98	4.03	5.25
68☐-3903R3	39	3.3	0.031	2.06	2.81	3.80	4.95
68☐-4703R0	47	3.0	0.043	1.88	2.55	3.45	4.50
68☐-5603R0	56	3.0	0.046	1.88	2.55	3.45	4.50
68☐-6802R4	68	2.4	0.058	1.50	2.04	2.76	3.60
68☐-8202R4	82	2.4	0.070	1.50	2.04	2.76	3.60
68☐-1012R0	100	2.0	0.085	1.25	1.70	2.30	3.00
68☐-1211R8	120	1.8	0.100	1.13	1.53	2.07	2.70
68☐-1511R6	150	1.6	0.130	1.00	1.36	1.84	2.40
68☐-1811R5	180	1.5	0.150	0.94	1.28	1.73	2.25
68☐-2211R3	220	1.3	0.200	0.81	1.11	1.50	1.95
68☐-2711R2	270	1.2	0.230	0.75	1.02	1.38	1.80
68☐-3311R1	330	1.1	0.280	0.69	0.94	1.27	1.65
68☐-3911R0	390	1.0	0.330	0.63	0.85	1.15	1.50
68☐-4711R0	470	1.0	0.410	0.63	0.85	1.15	1.50
68☐-5610R8	560	0.8	0.510	0.50	0.68	0.92	1.20
68☐-6810R7	680	0.7	0.600	0.47	0.64	0.86	1.13
68☐-8210R7	820	0.7	0.690	0.44	0.60	0.81	1.05
68☐-1020R6	1000	0.6	0.790	0.41	0.55	0.75	0.98
68☐-1220R6	1200	0.6	0.950	0.38	0.51	0.69	0.90
68☐-1520R5	1500	0.5	1.300	0.31	0.43	0.58	0.75
68☐-1820R5	1800	0.5	1.500	0.30	0.41	0.55	0.72
68☐-2720R4	2700	0.4	2.300	0.24	0.32	0.44	0.57
68☐-3320R4	3300	0.4	2.700	0.22	0.30	0.40	0.53
68☐-3920R3	3900	0.3	3.100	0.21	0.28	0.38	0.50
68☐-4720R3	4700	0.3	3.700	0.19	0.26	0.35	0.45
68☐-5620R3	5600	0.3	4.600	0.17	0.23	0.31	0.41
68☐-6820R2	6800	0.2	5.400	0.16	0.21	0.29	0.38
68☐-8220R2	8200	0.2	6.900	0.14	0.19	0.25	0.33
68☐-1030R2	10000	0.2	8.400	0.13	0.17	0.23	0.30
68☐-1230R2	12000	0.2	10.00	0.11	0.15	0.21	0.27

Inductance is measured on HP 4263A or equivalent.
Operation at rated current results in maximum 40°C temperature rise.
***For custom inductances, current ratings or mounting options, contact* CET.**

TOROIDAL INDUCTORS, 80 SERIES

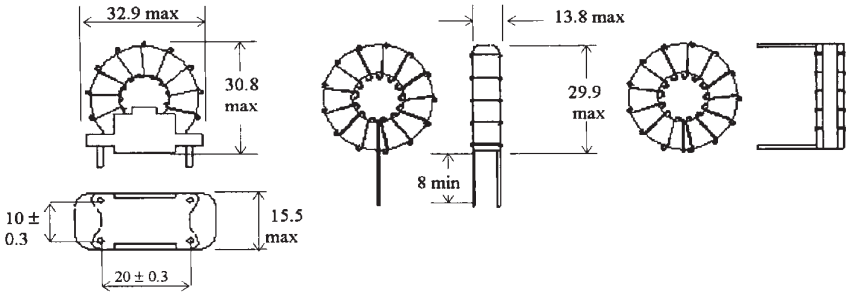


☐ = V (Vertical Base Mount); N (No Base)

Part No.	L_0 μH, 0 DC Amps	Rated DC (Amps)	DCR max Ω	DC Amps for % drop in L_0 10%	20%	30%	40%
80☐-1007R2	10	7.2	0.011	4.50	6.12	8.28	10.8
80☐-1206R7	12	6.7	0.013	4.19	5.70	7.71	10.1
80☐-1506R0	15	6.0	0.013	3.75	5.10	6.90	9.00
80☐-1805R4	18	5.4	0.012	3.38	4.59	6.21	8.10
80☐-2204R9	22	4.9	0.02	3.06	4.17	5.64	7.35
80☐-2704R3	27	4.3	0.02	2.69	3.66	4.95	6.45
80☐-3304R0	33	4.0	0.02	2.50	3.40	4.60	6.00
80☐-3903R8	39	3.8	0.03	2.38	3.23	4.37	5.70
80☐-4703R3	47	3.3	0.03	2.06	2.81	3.80	4.95
80☐-5603R0	56	3.0	0.04	1.88	2.55	3.45	4.50
80☐-6803R0	68	3.0	0.05	1.88	2.55	3.45	4.50
80☐-8202R5	82	2.5	0.07	1.56	2.13	2.88	3.75
80☐-1012R2	100	2.2	0.08	1.38	1.87	2.53	3.30
80☐-1212R0	120	2.0	0.09	1.25	1.70	2.30	3.00
80☐-1511R8	150	1.8	0.12	1.13	1.53	2.07	2.70
80☐-1811R7	180	1.7	0.14	1.06	1.45	1.96	2.55
80☐-2211R5	220	1.5	0.17	0.94	1.28	1.73	2.25
80☐-2711R4	270	1.4	0.21	0.88	1.19	1.61	2.10
80☐-3311R2	330	1.2	0.25	0.75	1.02	1.38	1.80
80☐-3911R1	390	1.1	0.31	0.69	0.94	1.27	1.65
80☐-4711R0	470	1.0	0.37	0.63	0.85	1.15	1.5
80☐-5611R0	560	1.0	0.44	0.60	0.82	1.10	1.44
80☐-6810R9	680	0.9	0.53	0.54	0.74	1.00	1.31
80☐-8210R8	0820	0.8	0.64	0.49	0.67	0.91	1.19
80☐-1020R7	1000	0.7	0.78	0.45	0.61	0.83	1.08
80☐-1220R7	1200	0.7	0.94	0.41	0.55	0.75	0.98
80☐-1520R6	1500	0.6	1.20	0.36	0.49	0.67	0.87
80☐-1820R5	1800	0.5	1.40	0.33	0.45	0.61	0.80
80☐-2220R5	2200	0.5	1.70	0.30	0.41	0.55	0.72
80☐-2720R4	2700	0.4	2.10	0.27	0.37	0.49	0.65
80☐-3320R4	3300	0.4	2.60	0.25	0.34	0.46	0.60
80☐-3920R4	3900	0.4	3.10	0.23	0.31	0.41	0.54
80☐-4720R3	4700	0.3	3.70	0.21	0.28	0.38	0.50
80☐-5620R3	5600	0.3	4.40	0.19	0.26	0.35	0.45
80☐-6820R3	6800	0.3	5.30	0.17	0.23	0.31	0.41
80☐-8220R2	8200	0.2	6.40	0.16	0.21	0.29	0.38
80☐-1030R2	10000	0.2	7.80	0.14	0.20	0.26	0.35
80☐-1230R2	12000	0.2	9.40	0.13	0.18	0.24	0.32

Inductance is measured on HP 4263A or equivalent.
Operation at rated current results in maximum 40°C temperature rise.
***For custom inductances, current ratings or mounting options, contact* CET.**

TOROIDAL INDUCTORS, 106 SERIES



☐ = V (Vertical Base Mount); N (No Base)

Part No.	L_o μH, 0 DC Amps	Rated DC (Amps)	DCR max Ω	DC Amps for % drop in L_o 10%	20%	30%	40%
106☐-6R815	6.8	15	0.0027	9.38	12.8	17.3	22.5
106☐-8R215	8.2	15	0.0035	9.38	12.8	17.3	22.5
106☐-10010	10	10	0.0043	6.25	8.50	11.5	15.0
106☐-12010	12	10	0.0052	6.25	8.50	11.5	15.0
106☐-15010	15	10	0.0062	6.25	8.50	11.5	15.0
106☐-1809R1	18	9.1	0.0073	0.63	0.85	11.5	15.0
106☐-2209R1	22	9.1	0.0097	5.69	7.74	10.5	13.7
106☐-2708R5	27	8.5	0.011	5.33	7.24	9.80	12.8
106☐-3307R6	33	7.6	0.014	4.74	6.45	8.73	11.4
106☐-3906R8	39	6.8	0.017	4.26	5.80	7.84	10.2
106☐-4706R2	47	6.2	0.021	3.88	5.27	7.13	9.30
106☐-5605R7	56	5.7	0.025	3.55	4.83	6.53	8.52
106☐-6805R2	68	5.2	0.029	3.28	4.45	6.03	7.86
106☐-8204R7	82	4.7	0.036	2.94	4.00	5.41	7.05
106☐-1014R2	100	4.2	0.044	2.66	3.62	4.90	6.39
106☐-1213R9	120	3.9	0.052	2.44	3.32	4.49	5.85
106☐-1513R5	150	3.5	0.065	2.19	2.98	4.03	5.25
106☐-1813R2	180	3.2	0.075	2.03	2.76	3.74	4.88
106☐-2212R6	220	2.9	0.095	1.81	2.47	3.34	4.35
106☐-2712R6	270	2.6	0.120	1.64	2.23	3.01	3.93
106☐-3312R4	330	2.4	0.140	1.50	2.04	2.75	3.59
106☐-3912R2	390	2.2	0.160	1.38	1.87	2.53	3.30
106☐-4712R0	470	2.0	0.200	1.23	1.68	2.27	2.96
106☐-5611R8	560	1.8	0.240	1.14	1.55	2.09	2.73
106☐-6811R6	680	1.6	0.290	1.04	1.42	1.91	2.50
106☐-8211R5	820	1.5	0.350	0.94	1.28	1.73	2.25
106☐-1021R4	1000	1.4	0.420	0.85	1.16	1.57	2.05
106☐-1221R2	1200	1.2	0.510	0.78	1.06	1.44	1.88
106☐-1521R1	1500	1.1	0.630	0.70	0.95	1.28	1.68
106☐-1821R0	1800	1.0	0.760	0.64	0.86	1.17	1.53
106☐-2220R9	2200	0.9	0.940	0.58	0.78	1.06	1.38
106☐-2720R8	2700	0.8	1.200	0.52	0.71	0.95	1.25
106☐-3320R8	3300	0.8	1.400	0.47	0.64	0.86	1.13
106☐-3920R7	3900	0.7	1.700	0.43	0.59	0.79	1.04
106☐-4720R6	4700	0.6	2.000	0.39	0.53	0.72	0.94
106☐-5620R6	5600	0.6	2.400	0.36	0.49	0.66	0.86
106☐-6820R5	6800	0.5	2.900	0.33	0.44	0.60	0.78
106☐-8220R5	8200	0.5	3.500	0.30	0.41	0.55	0.72
106☐-1030R4	10000	0.4	4.200	0.27	0.37	0.37	0.65

Inductance is measured on HP 4263A or equivalent.
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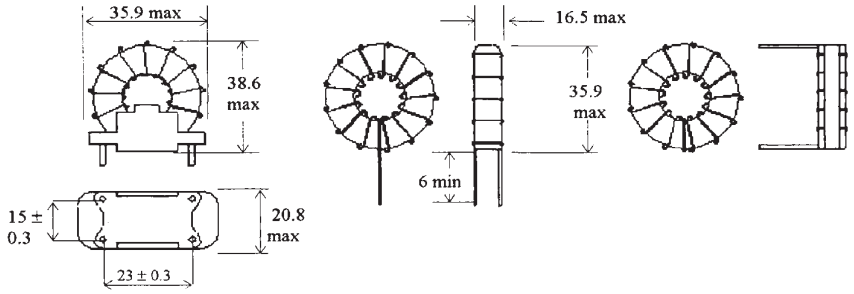
***For custom inductances, current ratings or mounting options, contact* CET.**

TOROIDAL INDUCTORS, 131 SERIES



☐ = V (Vertical Base Mount); N (No Base)

Part No.	L_o μH, 0 DC Amps	Rated DC (Amps)	DCR max Ω	DC Amps for % drop in L_o 10%	20%	30%	40%
131☐-4R725	4.7	25	0.0014	15.6	21.3	28.8	37.5
131☐-5R615	5.6	15	0.0018	9.38	12.8	17.3	22.5
131☐-6R815	6.8	15	0.0024	9.38	12.8	17.3	22.5
131☐-8R215	8.2	15	0.0031	9.38	12.8	17.3	22.5
131☐-10015	10	15	0.0031	9.38	12.8	17.3	22.5
131☐-12015	12	15	0.0038	9.38	12.8	17.3	22.5
131☐-15010	15	10	0.0054	6.25	8.50	11.5	15.0
131☐-18010	18	10	0.0063	6.25	8.50	11.5	15.0
131☐-22010	22	10	0.0073	6.25	8.50	11.5	15.0
131☐-27010	27	10	0.0084	6.25	8.50	11.5	15.0
131☐-3309R5	33	9.5	0.011	5.97	8.12	11.0	14.3
131☐-3908R5	39	8.5	0.013	5.34	7.27	9.83	12.8
131☐-4708R1	47	8.1	0.015	5.06	6.89	9.32	12.2
131☐-5607R4	56	7.4	0.018	4.61	6.27	8.49	11.1
131☐-6806R5	68	6.5	0.023	4.06	5.53	7.48	9.75
131☐-8206R0	82	6.0	0.027	3.75	5.10	6.90	9.00
131☐-1015R4	100	5.4	0.034	3.38	4.59	6.21	8.10
131☐-1214R9	120	4.9	0.041	3.08	4.18	5.66	7.38
131☐-1514R5	150	4.5	0.048	2.81	3.83	5.18	6.75
131☐-1814R0	180	4.0	0.060	2.53	3.44	4.66	6.08
131☐-2213R7	220	3.7	0.073	2.30	3.13	4.23	5.52
131☐-2713R3	270	3.3	0.090	2.07	2.81	3.81	4.97
131☐-3313R0	330	3.0	0.110	1.88	2.55	3.45	4.50
131☐-3912R7	390	2.7	0.130	1.72	2.34	3.16	4.13
131☐-4712R5	470	2.5	0.160	1.58	2.15	2.91	3.80
131☐-5612R3	560	2.3	0.180	1.45	1.97	2.67	3.48
131☐-6812R1	680	2.1	0.220	1.32	1.79	2.43	3.17
131☐-8211R9	820	1.9	0.270	1.19	1.62	2.20	2.87
131☐-1021R7	1000	1.7	0.330	1.08	1.46	1.98	2.58
131☐-1221R6	1200	1.6	0.390	0.98	1.33	1.81	2.36
131☐-1521R4	1500	1.4	0.490	0.88	1.20	1.62	2.12
131☐-1821R3	1800	1.3	0.590	0.80	1.09	1.47	1.92
131☐-2221R2	2200	1.2	0.720	0.73	0.99	1.33	1.74
131☐-2721R0	2700	1.0	0.880	0.66	0.89	1.21	1.58
131☐-3320R9	3300	0.9	1.100.	0.59	0.81	1.09	1.43
131☐-3920R8	3900	0.8	1.300	0.54	0.74	1.00	1.31
131☐-4720R8	4700	0.8	1.600	0.50	0.68	0.92	1.20

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