

RL-1518

SWINGDUCTOR™

VERTICAL MOUNT

DESCRIPTION

- Swingductor

ENVIRONMENTAL DATA

- Storage temperature range: -55°C to +130°C
- Operating temperature range: -40°C to +130°C

PACKAGING INFORMATION

- Packaging information: pg. 508

FEATURES & APPLICATIONS

- Electrically identical to RL-1386 series but uses convenient toroid header for easy, rugged, printed circuit board mounting
- Header can be used to mount any type of toroid

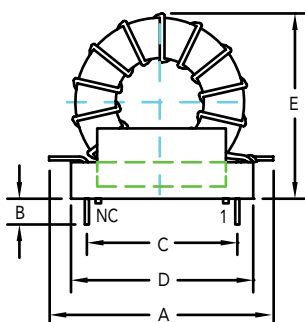
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

U.S. Standard (mm)

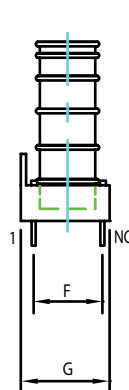
PART NUMBER	A (TYP.)	B (MIN.)	C (TYP.)	D (TYP.)	E (MAX.)	F (TYP.)	G (TYP.)	H (REF.)	I (REF.)	PART WEIGHT
RL-1518-1	1.35 (34.29)	0.25-0.312 (6.35-7.92)	0.80 (20.32)	1.00 (25.4)	1.30 (33.02)	0.40 (10.16)	0.70 (17.78)	0.80 (20.32)	0.40 (10.16)	17.0g (0.60oz)
RL-1518-2	1.45 (36.83)	0.25-0.312 (6.35-7.92)	0.90 (22.86)	1.10 (27.94)	1.50 (38.0)	0.60 (15.24)	0.90 (22.86)	0.90 (22.86)	0.60 (15.24)	49.0g (1.73oz)
RL-1518-3	1.45 (36.83)	0.25-0.312 (6.35-7.92)	0.90 (22.86)	1.10 (27.94)	1.75 (44.45)	0.60 (15.24)	0.90 (22.86)	0.90 (22.86)	0.60 (15.24)	65.0g (2.29oz)
RL-1518-4	1.75 (44.45)	0.25-0.312 (6.35-7.92)	1.20 (30.48)	1.40 (35.56)	2.20 (55.88)	0.70 (17.78)	1.00 (25.4)	1.20 (30.48)	0.70 (17.78)	139.0g (4.90oz)
RL-1518-5	2.05 (52.07)	0.25-0.312 (6.35-7.92)	1.50 (38.10)	1.70 (43.18)	2.75 (69.85)	0.90 (22.86)	1.20 (30.48)	1.50 (38.10)	0.90 (22.86)	235.0g (8.29oz)

FRONT VIEW

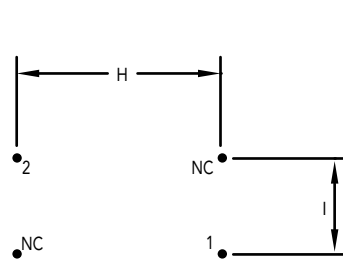


* ALL TERMINALS 0.038 SQ.

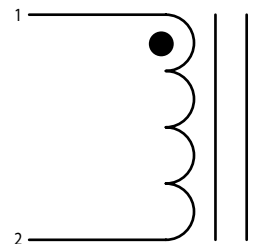
SIDE VIEW



RECOMMENDED LAND PATTERN



SCHEMATIC



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Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600



RL-1518-1

Renco Part No. RL-1518	L@ 0 Amps D.C. (μH) ± 25%	DCR Max. (Ohms)	Irms (A)	0% L Drop (DC Amps)	10% L Drop (DC Amps)	20% L Drop (DC Amps)	30% L Drop (DC Amps)	40% L Drop (DC Amps)	50% L Drop (DC Amps)
RL-1518-1-1.1	1.1	0.007	5.0	4.70	13.00	19.40	26.80	35.10	46.1
RL-1518-1-1.8	1.8	0.008	5.0	3.70	10.30	15.50	21.40	28.10	36.9
RL-1518-1-2.3	2.3	0.009	5.0	3.10	8.60	12.90	17.90	23.40	30.7
RL-1518-1-3.3	3.3	0.009	5.0	2.60	7.40	11.70	15.30	20.10	26.4
RL-1518-1-4.7	4.7	0.010	5.0	2.30	6.50	9.70	13.40	17.60	23.10
RL-1518-1-5.6	5.6	0.011	5.0	2.10	5.70	8.60	11.90	15.60	20.50
RL-1518-1-6.8	6.8	0.012	5.0	1.90	5.20	7.50	10.70	14.10	18.50
RL-1518-1-8.2	8.2	0.012	5.0	1.70	4.70	7.10	9.70	12.80	16.80
RL-1518-1-10	10.0	0.013	5.0	1.50	4.30	6.50	8.90	11.70	15.40
RL-1518-1-12	12.0	0.014	5.0	1.30	3.70	5.60	7.70	10.10	13.20
RL-1518-1-15	15.0	0.015	5.0	1.20	3.20	4.80	6.70	8.80	11.50
RL-1518-1-18	18.0	0.016	5.0	0.96	2.70	4.10	5.60	7.40	9.70
RL-1518-1-22	22.0	0.017	5.0	0.92	2.60	3.90	5.40	7.10	9.30
RL-1518-1-27	27.0	0.018	5.0	0.84	2.40	3.50	4.90	6.40	8.40
RL-1518-1-33	33.0	0.018	5.0	0.74	2.10	3.10	4.30	5.60	7.40
RL-1518-1-39	39.0	0.020	5.0	0.68	1.90	2.90	4.00	5.20	6.80
RL-1518-1-47	47.0	0.022	5.0	0.61	1.70	2.60	3.60	4.70	6.20
RL-1518-1-56	56.0	0.024	5.0	0.58	1.60	2.40	3.40	4.40	5.80
RL-1518-1-68	68.0	0.026	5.0	0.52	1.50	2.20	3.10	4.00	5.30
RL-1518-1-82	82.0	0.028	5.0	0.47	1.30	2.00	2.80	3.60	4.70
RL-1518-1-100	100.0	0.032	5.0	0.43	1.20	1.90	2.60	3.50	4.40
RL-1518-1-120	120.0	0.034	5.0	0.40	1.10	1.70	2.30	3.10	4.00
RL-1518-1-150	150.0	0.038	5.0	0.36	1.00	1.50	2.10	2.80	3.60
RL-1518-1-180	180.0	0.046	5.0	0.30	0.92	1.40	1.90	2.80	3.30
RL-1518-1-220	220.0	0.060	4.5	0.30	0.83	1.20	1.70	2.50	3.00
RL-1518-1-270	270.0	0.062	4.5	0.27	0.79	1.40	1.60	2.30	2.70
RL-1518-1-330	330.0	0.090	3.5	0.23	0.64	1.60	1.30	2.10	2.30
RL-1518-1-390	390.0	0.100	3.5	0.21	0.60	0.90	1.30	1.80	2.20
RL-1518-1-470	470.0	0.120	3.5	0.20	0.57	0.85	1.20	1.60	2.10
RL-1518-1-560	560.0	0.180	2.0	0.18	0.50	0.74	1.00	1.40	1.80
RL-1518-1-680	680.0	0.200	2.0	0.16	0.46	0.68	0.95	1.30	1.70
RL-1518-1-820	820.0	0.260	1.5	0.15	0.42	0.64	0.89	1.20	1.50
RL-1518-1-1000	1000.0	0.290	1.5	0.14	0.38	0.57	0.79	1.20	1.40
RL-1518-1-1200	1200.0	0.410	1.2	0.12	0.33	0.50	0.68	0.90	1.20
RL-1518-1-1500	1500.0	0.480	1.2	0.11	0.30	0.44	0.61	0.81	1.10

NOTES:

1. INDUCTANCE MEASURED AT 1 kHz, 0.1 Vrms
2. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
3. SATURATION CURRENTS SHOWN ARE FOR MAXIMUM L DROP INDICATED, I.E., IF 20% DROP FOR A 100μH CHOKE IS AT 2 AMPS, THE L WILL BE APPROX. 80μH (60μH MIN.)
4. I_{rms} - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
5. LEADS FOR PC MOUNTING TINNED TO WITHIN 1/16" OF BODY
6. DRIVE LEVEL AT WHICH YOU TEST IS IMPORTANT



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TOROIDS

RL-1518-2

Renco Part No. RL-1518-2	L@ 0 Amps D.C. (μH) $\pm 25\%$	DCR Max. (Ohms)	I _{rms} (A)	0% L Drop (DC Amps)	10% L Drop (DC Amps)	20% L Drop (DC Amps)	30% L Drop (DC Amps)	40% L Drop (DC Amps)	50% L Drop (DC Amps)
RL-1518-2-1.2	1.2	0.007	5.0	7.70	21.70	32.70	45.00	59.10	77.70
RL-1518-2-2.0	2.0	0.008	5.0	8.80	15.40	24.50	33.80	44.30	58.20
RL-1518-2-3.3	3.3	0.009	5.0	4.70	13.10	19.60	27.00	35.50	46.60
RL-1518-2-4.7	4.7	0.010	5.0	3.90	10.90	16.40	22.50	29.50	39.80
RL-1518-2-6.8	6.8	0.011	5.0	3.30	9.30	14.00	19.30	25.30	33.30
RL-1518-2-8.2	8.2	0.012	5.0	2.90	8.10	12.30	16.90	22.10	29.10
RL-1518-2-10	10.0	0.013	5.0	2.60	7.30	10.90	15.00	20.00	25.80
RL-1518-2-12	12.0	0.014	5.0	2.30	6.60	9.80	13.50	17.70	23.30
RL-1518-2-15	15.0	0.015	5.0	2.10	5.90	8.90	12.30	16.10	21.20
RL-1518-2-18	18.0	0.016	5.0	1.90	5.50	8.20	11.30	14.80	18.90
RL-1518-2-22	22.0	0.016	5.0	1.80	5.00	7.50	10.40	13.60	17.40
RL-1518-2-27	27.0	0.018	5.0	1.60	4.40	6.50	9.00	11.80	15.50
RL-1518-2-33	33.0	0.020	5.0	1.40	3.80	5.80	7.90	10.40	13.70
RL-1518-2-39	39.0	0.021	5.0	1.20	3.40	5.20	7.10	9.30	12.20
RL-1518-2-47	47.0	0.023	5.0	1.20	3.30	4.90	6.80	8.80	11.60
RL-1518-2-56	56.0	0.025	5.0	1.00	2.80	4.30	5.90	7.70	10.10
RL-1518-2-68	68.0	0.030	5.0	0.93	2.60	3.90	5.10	7.00	9.30
RL-1518-2-82	82.0	0.032	5.0	0.83	2.30	3.50	4.80	6.30	8.30
RL-1518-2-100	100.0	0.034	5.0	0.75	2.10	3.20	4.40	5.70	7.50
RL-1518-2-120	120.0	0.037	5.0	0.70	1.90	3.00	4.10	5.30	7.00
RL-1518-2-150	150.0	0.043	5.0	0.64	1.80	2.70	3.70	4.90	6.40
RL-1518-2-180	180.0	0.048	5.0	0.57	1.50	2.40	3.30	4.30	5.70
RL-1518-2-220	220.0	0.054	5.0	0.51	1.50	2.20	3.00	3.90	5.10
RL-1518-2-270	270.0	0.060	5.0	0.48	1.30	2.00	2.80	3.60	4.80
RL-1518-2-330	330.0	0.065	5.0	0.43	1.20	1.80	2.50	3.30	4.30
RL-1518-2-390	390.0	0.070	5.0	0.39	1.10	1.70	2.30	3.00	3.90
RL-1518-2-470	470.0	0.078	5.0	0.36	1.00	1.50	2.10	2.70	3.60
RL-1518-2-560	560.0	0.088	5.0	0.32	0.90	1.40	1.90	2.50	3.20
RL-1518-2-680	680.0	0.135	4.5	0.29	0.81	1.20	1.70	2.20	2.90
RL-1518-2-820	820.0	0.145	4.5	0.26	0.74	1.10	1.50	2.00	2.60
RL-1518-2-1000	1000.0	0.165	4.5	0.24	0.67	1.00	1.40	1.80	2.40
RL-1518-2-1200	1200.0	0.190	3.5	0.21	0.59	0.89	1.20	1.60	2.10
RL-1518-2-1500	1500.0	0.350	2.0	0.19	0.52	0.78	1.10	1.40	1.90
RL-1518-2-1800	1800.0	0.380	2.0	0.17	0.48	0.72	0.99	1.30	1.70
RL-1518-2-2200	2200.0	0.450	2.0	0.15	0.43	0.65	0.90	1.20	1.60
RL-1518-2-2700	2700.0	0.550	2.0	0.12	0.38	0.58	0.78	1.10	1.40

NOTES:

1. INDUCTANCE MEASURED AT 1 kHz, 0.1 V_{rms}
2. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
3. SATURATION CURRENTS SHOWN ARE FOR MAXIMUM L DROP INDICATED, I.E., IF 20% DROP FOR A 100 μH CHOKE IS AT 2 AMPS, THE L WILL BE APPROX. 80 μH (60 μH MIN.)
4. I_{rms} - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
5. LEADS FOR PC MOUNTING TINNED TO WITHIN 1/16" OF BODY
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RL-1518-3

Renco Part No. RL-1518-3	L@ 0 Amps D.C. (μ H) $\pm 25\%$	DCR Max. (Ohms)	Irms (A)	0% L Drop (DC Amps)	10% L Drop (DC Amps)	20% L Drop (DC Amps)	30% L Drop (DC Amps)	40% L Drop (DC Amps)	50% L Drop (DC Amps)
RL-1518-3-1.5	1.5	0.006	9.0	8.60	23.70	39.20	54.90	73.20	96.30
RL-1518-3-2.2	2.2	0.006	9.0	6.40	17.70	29.40	41.10	54.90	72.20
RL-1518-3-3.3	3.3	0.007	9.0	5.10	14.10	23.60	32.90	43.90	57.80
RL-1518-3-5.6	5.6	0.007	9.0	4.20	11.80	19.60	27.50	36.60	48.20
RL-1518-3-6.8	6.8	0.008	9.0	3.60	10.10	16.80	23.50	31.40	41.20
RL-1518-3-10	10.0	0.009	9.0	2.80	7.80	13.10	18.30	24.40	32.10
RL-1518-3-12	12.0	0.010	9.0	2.60	7.10	11.80	16.50	22.00	28.90
RL-1518-3-15	15.0	0.011	9.0	2.30	6.50	9.90	14.90	19.90	26.10
RL-1518-3-18	18.0	0.012	9.0	2.10	5.90	9.80	13.70	18.30	24.00
RL-1518-3-22	22.0	0.012	9.0	1.90	5.50	9.00	12.60	16.80	22.10
RL-1518-3-27	27.0	0.013	9.0	1.70	4.70	7.80	11.00	14.60	19.30
RL-1518-3-33	33.0	0.013	9.0	1.50	4.40	7.30	10.30	13.70	18.00
RL-1518-3-39	39.0	0.015	9.0	1.40	3.90	6.50	9.10	12.20	16.00
RL-1518-3-47	47.0	0.016	9.0	1.30	3.60	5.90	8.20	11.00	14.40
RL-1518-3-56	56.0	0.018	9.0	1.10	3.20	5.30	7.50	9.90	13.10
RL-1518-3-68	68.0	0.019	9.0	0.99	3.00	4.90	6.80	9.10	12.00
RL-1518-3-82	82.0	0.021	9.0	0.90	2.70	4.50	6.30	8.40	11.10
RL-1518-3-100	100.0	0.023	9.0	0.88	2.40	4.10	5.70	7.60	9.90
RL-1518-3-120	120.0	0.026	9.0	0.80	2.20	3.60	5.10	6.80	9.30
RL-1518-3-150	150.0	0.028	9.0	0.73	2.00	3.30	4.70	6.20	8.20
RL-1518-3-180	180.0	0.031	9.0	0.68	1.90	3.10	4.30	5.80	7.60
RL-1518-3-220	220.0	0.034	9.0	0.58	1.60	2.60	3.70	5.00	6.50
RL-1518-3-270	270.0	0.038	9.0	0.55	1.50	2.50	3.50	4.80	6.20
RL-1518-3-330	330.0	0.042	9.0	0.50	1.40	2.30	3.20	4.30	5.70
RL-1518-3-390	390.0	0.056	7.0	0.47	1.30	2.10	3.00	4.00	5.30
RL-1518-3-470	470.0	0.068	7.0	0.43	1.20	2.00	2.80	3.70	4.80
RL-1518-3-560	560.0	0.074	7.0	0.38	1.00	1.70	2.40	3.20	4.30
RL-1518-3-680	680.0	0.094	5.0	0.34	0.93	1.60	2.20	2.90	3.80
RL-1518-3-820	820.0	0.163	3.5	0.31	0.86	1.40	2.00	2.70	3.50
RL-1518-3-1000	1000.0	0.190	3.5	0.27	0.75	1.20	1.70	2.30	3.00
RL-1518-3-1200	1200.0	0.200	3.5	0.25	0.68	1.10	1.60	2.10	2.80
RL-1518-3-1500	1500.0	0.220	3.5	0.22	0.61	1.00	1.40	1.90	2.50
RL-1518-3-1800	1800.0	0.242	3.5	0.21	0.57	0.94	1.30	1.80	2.30
RL-1518-3-2200	2200.0	0.430	2.0	0.18	0.49	0.81	1.10	1.50	2.00
RL-1518-3-2700	2700.0	0.460	2.0	0.16	0.45	0.76	1.10	1.40	1.90
RL-1518-3-3300	3300.0	0.550	2.0	0.15	0.41	0.69	0.96	1.30	1.70
RL-1518-3-3900	3900.0	0.570	2.0	0.14	0.38	0.63	0.87	1.20	1.50

NOTES:

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4. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
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RL-1518-4

Renco Part No. RL-1518-4	L@ 0 Amps D.C. (μ H) \pm 25%	DCR Max. (Ohms)	I _{rms} (A)	0% L Drop (DC Amps)	10% L Drop (DC Amps)	20% L Drop (DC Amps)	30% L Drop (DC Amps)	40% L Drop (DC Amps)	50% L Drop (DC Amps)
RL-1518-4-1.2	1.2	0.006	14.0	11.70	33.30	50.40	69.30	90.90	119.70
RL-1518-4-2.2	2.2	0.007	14.0	9.00	25.20	37.80	52.20	68.40	90.00
RL-1518-4-3.3	3.3	0.007	14.0	7.20	19.80	29.70	41.40	54.00	72.00
RL-1518-4-4.7	4.7	0.007	14.0	5.90	16.20	25.20	34.20	45.00	59.40
RL-1518-4-6.8	6.8	0.008	14.0	5.10	14.40	21.60	29.70	38.70	51.30
RL-1518-4-8.2	8.2	0.009	14.0	4.50	12.60	18.90	26.10	34.20	45.00
RL-1518-4-10	10.0	0.010	14.0	3.80	10.80	16.20	22.50	29.70	39.60
RL-1518-4-12	12.0	0.010	14.0	3.60	9.90	14.40	20.70	27.00	36.00
RL-1518-4-15	15.0	0.011	14.0	3.20	9.00	13.50	18.90	24.30	32.40
RL-1518-4-18	18.0	0.012	14.0	3.00	8.40	12.60	17.20	22.50	29.70
RL-1518-4-22	22.0	0.013	14.0	2.80	7.70	11.70	15.30	20.70	27.00
RL-1518-4-27	27.0	0.013	14.0	2.30	6.80	9.90	13.50	18.00	23.40
RL-1518-4-33	33.0	0.015	14.0	2.10	5.90	8.80	11.70	15.30	20.70
RL-1518-4-39	39.0	0.016	14.0	1.90	5.20	7.90	10.80	14.40	18.90
RL-1518-4-47	47.0	0.018	14.0	1.70	4.80	7.20	9.90	12.60	17.10
RL-1518-4-56	56.0	0.018	14.0	1.50	4.30	6.60	9.00	11.70	15.30
RL-1518-4-68	68.0	0.019	14.0	1.40	4.10	6.00	8.30	10.80	14.40
RL-1518-4-82	82.0	0.021	14.0	1.30	3.60	5.40	7.40	9.00	12.60
RL-1518-4-100	100.0	0.023	14.0	1.20	3.20	4.90	6.70	8.80	10.80
RL-1518-4-120	120.0	0.025	14.0	1.10	2.90	4.40	6.10	8.00	9.90
RL-1518-4-150	150.0	0.027	14.0	0.90	2.60	4.00	5.50	7.20	9.00
RL-1518-4-180	180.0	0.029	14.0	0.86	2.30	3.60	5.00	6.50	8.60
RL-1518-4-220	220.0	0.033	14.0	0.78	2.20	3.20	4.50	5.90	7.70

RL-1518-4 TABLE CONTINUES ON FOLLOWING PAGE

NOTES:

1. INDUCTANCE MEASURED AT 1 kHz, 0.1 V_{rms}
2. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
3. SATURATION CURRENTS SHOWN ARE FOR MAXIMUM L DROP INDICATED, I.E., IF 20% DROP FOR A 100 μ H CHOKE IS AT 2 AMPS, THE L WILL BE APPROX. 80 μ H (60 μ H MIN.)
4. I_{rms} - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
5. LEADS FOR PC MOUNTING TINNED TO WITHIN 1/16" OF BODY
6. DRIVE LEVEL AT WHICH YOU TEST IS IMPORTANT



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RL-1518-4

Renco Part No. RL-1518-4	L@ 0 Amps D.C. (μ H) \pm 25%	DCR Max. (Ohms)	Irms (A)	0% L Drop (DC Amps)	10% L Drop (DC Amps)	20% L Drop (DC Amps)	30% L Drop (DC Amps)	40% L Drop (DC Amps)	50% L Drop (DC Amps)
RL-1518-4-270	270.0	0.035	14.0	0.71	1.90	2.90	4.10	5.30	7.00
RL-1518-4-330	330.0	0.038	14.0	0.63	1.70	2.60	3.60	4.80	6.30
RL-1518-4-390	390.0	0.045	14.0	0.58	1.60	2.40	3.30	4.40	5.80
RL-1518-4-470	470.0	0.050	14.0	0.54	1.40	2.30	3.10	4.10	5.30
RL-1518-4-560	560.0	0.055	14.0	0.49	1.40	2.10	2.80	3.70	4.90
RL-1518-4-680	680.0	0.074	9.0	0.44	1.20	1.80	2.50	3.30	4.30
RL-1518-4-820	820.0	0.084	9.0	0.40	1.10	1.60	2.30	3.00	4.00
RL-1518-4-1000	1000.0	0.100	9.0	0.36	1.00	1.50	2.10	2.70	3.60
RL-1518-4-1200	1200.0	0.120	7.0	0.33	0.90	1.40	1.90	2.50	3.30
RL-1518-4-1500	1500.0	0.130	7.0	0.29	0.81	1.20	1.60	2.20	2.70
RL-1518-4-1800	1800.0	0.155	7.0	0.26	0.75	1.10	1.50	2.00	2.60
RL-1518-4-2200	2200.0	0.167	7.0	0.24	0.68	0.99	1.40	1.80	2.30
RL-1518-4-2700	2700.0	0.235	5.0	0.22	0.61	0.90	1.30	1.60	2.20
RL-1518-4-3300	3300.0	0.265	5.0	0.20	0.56	0.84	1.10	1.40	2.00
RL-1518-4-3900	3900.0	0.350	4.5	0.18	0.51	0.76	0.99	1.40	1.80
RL-1518-4-4700	4700.0	0.400	4.5	0.16	0.46	0.68	0.90	1.20	1.60
RL-1518-4-5600	5600.0	0.450	4.5	0.15	0.42	0.63	0.87	1.10	1.40

NOTES:

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RL-1518-5

Renco Part No. RL-1518-5	L@ 0 Amps D.C. (μ H) $\pm 25\%$	DCR Max. (Ohms)	I _{rms} (A)	0% L Drop (DC Amps)	10% L Drop (DC Amps)	20% L Drop (DC Amps)	30% L Drop (DC Amps)	40% L Drop (DC Amps)	50% L Drop (DC Amps)
RL-1518-5-1.0	1.0	0.005	22.0	19.90	55.80	83.70	115.20	151.20	199.40
RL-1518-5-2.2	2.2	0.005	22.0	13.20	37.20	55.80	77.00	100.80	132.80
RL-1518-5-3.9	3.9	0.006	22.0	9.90	27.90	41.40	57.80	75.60	99.60
RL-1518-5-5.6	5.6	0.006	22.0	7.90	22.30	33.30	46.30	60.30	79.70
RL-1518-5-10	10.0	0.007	22.0	6.60	18.50	27.90	38.50	50.40	66.40
RL-1518-5-12	12.0	0.007	22.0	5.70	15.90	23.40	33.00	43.20	56.90
RL-1518-5-15	15.0	0.008	22.0	5.00	14.00	20.70	28.90	37.80	49.80
RL-1518-5-18	18.0	0.009	22.0	4.40	12.30	18.30	25.70	33.30	44.30
RL-1518-5-22	22.0	0.009	22.0	4.00	11.20	16.20	23.10	29.70	39.90
RL-1518-5-27	27.0	0.010	22.0	3.20	9.30	13.50	19.30	25.20	33.20
RL-1518-5-33	33.0	0.011	22.0	3.10	8.60	12.60	17.70	22.50	30.60
RL-1518-5-39	39.0	0.011	22.0	2.80	7.90	11.70	16.50	21.60	28.40
RL-1518-5-47	47.0	0.012	22.0	2.40	6.90	9.90	14.40	18.90	24.80
RL-1518-5-56	56.0	0.012	22.0	2.30	6.50	9.00	13.60	17.10	23.40
RL-1518-5-68	68.0	0.013	22.0	2.10	5.90	8.10	12.20	15.30	21.00
RL-1518-5-82	82.0	0.013	22.0	1.90	5.30	7.20	11.00	14.40	18.90
RL-1518-5-100	100.0	0.014	22.0	1.60	4.60	6.30	9.60	12.60	16.60
RL-1518-5-120	120.0	0.015	22.0	1.50	4.20	6.30	8.80	10.80	15.30
RL-1518-5-150	150.0	0.016	22.0	1.40	4.00	5.40	8.20	10.80	14.20
RL-1518-5-180	180.0	0.018	22.0	1.30	3.60	5.40	7.40	9.00	12.80
RL-1518-5-220	220.0	0.020	22.0	1.20	3.20	4.50	6.80	8.10	11.70
RL-1518-5-270	270.0	0.021	22.0	1.00	2.80	3.60	5.90	7.20	10.20
RL-1518-5-330	330.0	0.023	22.0	0.90	2.60	3.60	5.50	7.20	9.50
RL-1518-5-390	390.0	0.025	22.0	0.81	2.30	3.60	5.00	6.30	8.60
RL-1518-5-470	470.0	0.041	18.0	0.80	2.20	3.30	4.60	6.00	7.70
RL-1518-5-560	560.0	0.050	18.0	0.69	1.90	2.90	4.00	5.10	6.80
RL-1518-5-680	680.0	0.060	11.0	0.63	1.80	2.70	3.60	4.80	6.10
RL-1518-5-820	820.0	0.070	11.0	0.58	1.60	2.40	3.30	4.30	5.80
RL-1518-5-1000	1000.0	0.075	11.0	0.51	1.40	2.10	2.90	3.90	5.00
RL-1518-5-1200	1200.0	0.100	7.0	0.47	1.30	1.90	2.70	3.50	4.70
RL-1518-5-1500	1500.0	0.110	7.0	0.42	1.20	1.70	2.40	3.20	4.20
RL-1518-5-1800	1800.0	0.120	7.0	0.39	1.10	1.60	2.20	2.90	3.90
RL-1518-5-2200	2200.0	0.140	7.0	0.34	1.00	1.40	2.00	2.50	3.40
RL-1518-5-2700	2700.0	0.150	7.0	0.31	0.87	1.30	1.80	2.30	3.10
RL-1518-5-3300	3300.0	0.200	5.0	0.28	0.79	1.20	1.60	2.20	2.80
RL-1518-5-3900	3900.0	0.220	5.0	0.26	0.79	1.10	1.40	1.90	2.50
RL-1518-5-4700	4700.0	0.240	5.0	0.23	0.65	0.40	1.40	1.70	2.30
RL-1518-5-5600	5600.0	0.320	5.0	0.21	0.59	0.90	1.20	1.60	2.10

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