

RL-5480HC

HIGH CURRENT "MINI-DRUM" INDUCTOR

DESCRIPTION

- High Current Mini-Drum Inductors

ENVIRONMENTAL DATA

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

PACKAGING INFORMATION

- Packaging Information: pg 510

FEATURES & APPLICATIONS

- 259 standard values from which to choose. Inductances range from 3.9 μ H to 270,000 μ H
- Current capabilities up to 9.50 A, and a saturation current as high as 24.5 A
- High saturation materials make these coils ideal for use in switching regulated power supply applications
- Small size and staggered lead length make them easy for PCB insertion
- Sizes 1 to 4 supplied on Ammo pack for auto insertion
- Size 5 150 per tray
- Typical applications include: power supplies and EMI suppression

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

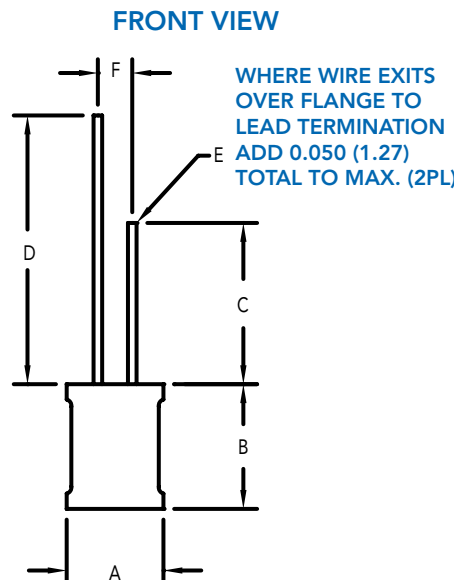
MECHANICAL DIMENSIONS

U.S. Standard (mm)

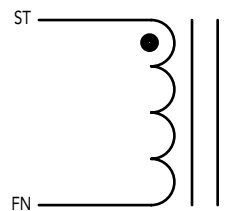
PART NUMBER	A (MAX.)	B (MAX.)	C (MIN.)	D (MIN.)	E (TYP.)	F *
RL-5480HC-1	0.225 (5.715)	0.290 (7.366)	0.335 (8.50)	0.590 (15.00)	0.020 (0.508)	0.080 (2.032)
RL-5480HC-2	0.310 (7.87)	0.365 (9.271)	0.335 (8.50)	0.590 (15.00)	0.025 (0.635)	0.138 (3.50)
RL-5480HC-3	0.375 (9.525)	0.450 (11.430)	0.335 (8.50)	0.590 (15.00)	0.032 (0.813)	0.197 (5.00)
RL-5480HC-4	0.480 (12.200)	0.710 (18.034)	0.335 (8.50)	0.590 (15.00)	0.032 (0.813)	0.290 (7.366)
RL-5480HC-5	0.625 (15.875)	0.700 (17.780)	0.335 (8.50)	0.590 (15.00)	0.040 (1.016)	0.300 (7.620)

* LEADS EASILY FORMABLE TO F DIMENSIONS

PART NUMBER	PART WEIGHT
RL-5480HC-1	0.50g (0.018oz)
RL-5480HC-2	0.75g (0.026oz)
RL-5480HC-3	3.0g (0.106oz)
RL-5480HC-4	7.0g (0.247oz)
RL-5480HC-5	12.0g (0.423oz)



SCHEMATIC



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RL-5480HC-1

Renco Part No. RL-5480HC-1	Inductance (μH) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	Irms (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-1-3.9	3.9	0.050	3.23	3.53	3.73	2.75	36.1
RL-5480HC-1-4.7	4.7	0.054	2.78	3.03	3.23	2.65	32.9
RL-5480HC-1-5.6	5.6	0.061	2.70	2.90	3.10	2.50	30.1
RL-5480HC-1-6.8	6.8	0.065	2.50	2.70	3.00	2.40	27.3
RL-5480HC-1-8.2	8.2	0.072	2.23	2.38	2.48	2.30	24.9
RL-5480HC-1-10	10.0	0.080	2.08	2.23	2.33	2.20	22.6
RL-5480HC-1-12	12.0	0.088	1.88	2.03	2.13	1.95	20.6
RL-5480HC-1-15	15.0	0.100	1.73	1.83	1.93	1.80	18.4
RL-5480HC-1-18	18.0	0.117	1.53	1.63	1.73	1.65	16.8
RL-5480HC-1-22	22.0	0.158	1.38	1.43	1.53	1.40	15.2
RL-5480HC-1-27	27.0	0.203	1.23	1.33	1.38	1.25	11.6
RL-5480HC-1-33	33.0	0.232	1.10	1.18	1.25	1.15	10.5
RL-5480HC-1-39	39.0	0.254	1.03	1.10	1.18	1.10	9.65
RL-5480HC-1-47	47.0	0.273	0.750	0.850	0.930	1.00	8.80
RL-5480HC-1-56	56.0	0.376	0.740	0.840	0.920	0.860	8.05
RL-5480HC-1-68	68.0	0.385	0.710	0.810	0.870	0.850	7.30
RL-5480HC-1-82	82.0	0.447	0.610	0.690	0.730	0.790	6.65
RL-5480HC-1-100	100.0	0.556	0.630	0.690	0.730	0.710	6.05
RL-5480HC-1-120	120.0	0.625	0.570	0.630	0.670	0.670	5.50
RL-5480HC-1-150	150.0	0.975	0.530	0.590	0.630	0.540	4.95
RL-5480HC-1-180	180.0	1.10	0.510	0.550	0.590	0.505	4.50
RL-5480HC-1-220	220.0	1.35	0.470	0.510	0.530	0.455	4.10
RL-5480HC-1-270	270.0	1.47	0.370	0.410	0.430	0.435	3.70
RL-5480HC-1-330	330.0	2.22	0.330	0.370	0.390	0.355	3.35
RL-5480HC-1-390	390.0	2.42	0.325	0.355	0.370	0.340	3.05
RL-5480HC-1-470	470.0	2.85	0.280	0.320	0.340	0.310	2.60
RL-5480HC-1-560	560.0	3.57	0.250	0.280	0.300	0.280	2.40

NOTES:

1. INDUCTANCE $\pm 10\%$ TESTED AT 10 kHz, 0.1 Vrms
2. VALUES BELOW 10 μH ARE $\pm 20\%$
3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. 5% TOLERANCE OPTIONAL ON VALUES 22 μH AND ABOVE
5. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY PERCENTAGE SHOWN ABOVE
6. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
7. PART FINISHED WITH 135°C POLYOLEFIN SLEEVING THAT MEETS UL-224 VW-1



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RL-5480HC-1 Continued

Renco Part No. RL-5480HC-1	Inductance (μ H) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	Irms (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-1-680	680.0	4.47	0.235	0.260	0.280	0.250	2.20
RL-5480HC-1-820	820.0	5.08	0.215	0.235	0.250	0.235	2.00
RL-5480HC-1-1000	1000.0	5.63	0.185	0.200	0.215	0.220	1.80
RL-5480HC-1-1200	1200.0	7.21	0.170	0.190	0.200	0.195	1.65
RL-5480HC-1-1500	1500.0	8.21	0.150	0.165	0.175	0.185	1.50
RL-5480HC-1-1800	1800.0	11.5	0.140	0.155	0.165	0.155	1.35
RL-5480HC-1-2200	2200.0	12.3	0.130	0.140	0.150	0.150	1.20
RL-5480HC-1-2700	2700.0	18.7	0.110	0.125	0.135	0.120	1.10
RL-5480HC-1-3300	3300.0	20.1	0.105	0.110	0.120	0.115	0.980
RL-5480HC-1-3900	3900.0	26.7	0.095	0.100	0.105	0.100	0.905
RL-5480HC-1-4700	4700.0	29.2	0.090	0.094	0.100	0.095	0.825
RL-5480HC-1-5600	5600.0	34.4	0.072	0.082	0.086	0.085	0.755
RL-5480HC-1-6800	6800.0	38.3	0.068	0.076	0.080	0.080	0.685
RL-5480HC-1-8200	8200.0	58.6	0.060	0.066	0.070	0.065	0.625
RL-5480HC-1-10000	10000.0	66.6	0.054	0.060	0.064	0.040	0.565
RL-5480HC-1-12000	12000.0	76.0	0.050	0.055	0.060	0.035	0.515
RL-5480HC-1-15000	15000.0	79.2	0.044	0.048	0.052	0.035	0.460
RL-5480HC-1-18000	18000.0	129.4	0.038	0.042	0.046	0.030	0.420
RL-5480HC-1-22000	22000.0	157.0	0.035	0.040	0.044	0.025	0.380

RL-5480HC-2

Renco Part No. RL-5480HC-2	Inductance (μ H) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	Irms (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-2-3.9	3.9	0.033	6.00	6.55	7.10	4.30	29.5
RL-5480HC-2-4.7	4.7	0.035	5.58	5.98	6.38	4.20	26.9
RL-5480HC-2-5.6	5.6	0.041	5.15	5.60	5.75	3.90	24.6
RL-5480HC-2-6.8	6.8	0.042	4.85	5.30	5.60	3.60	22.3
RL-5480HC-2-8.2	8.2	0.048	4.40	4.55	4.85	3.40	20.3
RL-5480HC-2-10	10.0	0.054	3.98	4.38	4.58	3.10	18.4
RL-5480HC-2-12	12.0	0.061	3.58	3.88	4.08	2.75	16.8
RL-5480HC-2-15	15.0	0.064	3.18	3.43	3.63	2.70	15.1
RL-5480HC-2-18	18.0	0.078	2.75	3.05	3.20	2.45	13.7
RL-5480HC-2-22	22.0	0.082	2.53	2.83	3.05	2.40	12.4
RL-5480HC-2-27	27.0	0.095	2.43	2.63	2.78	2.20	11.2
RL-5480HC-2-33	33.0	0.118	2.23	2.38	2.48	2.00	10.2
RL-5480HC-2-39	39.0	0.125	1.95	2.15	2.20	1.95	9.35

NOTES:

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RL-5480HC-2 Continued

Renco Part No. RL-5480HC-2	Inductance (μ H) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	Irms (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-2-47	47.0	0.138	1.88	1.98	3.08	1.85	8.50
RL-5480HC-2-56	56.0	0.173	1.68	1.78	1.88	1.60	7.80
RL-5480HC-2-68	68.0	0.207	1.58	1.68	1.73	1.45	7.05
RL-5480HC-2-82	82.0	0.245	1.43	1.48	1.58	1.30	6.45
RL-5480HC-2-100	100.0	0.274	1.25	1.33	1.40	1.25	5.85
RL-5480HC-2-120	120.0	0.320	1.13	1.18	1.28	1.15	5.35
RL-5480HC-2-150	150.0	0.400	1.08	1.13	1.18	1.05	4.75
RL-5480HC-2-180	180.0	0.471	0.940	1.03	1.08	0.945	3.45
RL-5480HC-2-220	220.0	0.560	0.870	0.930	0.970	0.830	3.10
RL-5480HC-2-270	270.0	0.630	0.770	0.830	0.870	0.785	2.80
RL-5480HC-2-330	330.0	0.830	0.650	0.730	0.770	0.680	2.55
RL-5480HC-2-390	390.0	1.04	0.610	0.670	0.710	0.610	2.35
RL-5480HC-2-470	470.0	1.25	0.590	0.630	0.670	0.555	2.15
RL-5480HC-2-560	560.0	1.41	0.510	0.570	0.590	0.520	1.95
RL-5480HC-2-680	680.0	1.81	0.470	0.530	0.550	0.460	1.80
RL-5480HC-2-820	820.0	1.98	0.420	0.460	0.490	0.440	1.65
RL-5480HC-2-1000	1000.0	2.67	0.390	0.415	0.450	0.380	1.50
RL-5480HC-2-1200	1200.0	3.26	0.360	0.390	0.410	0.345	1.35
RL-5480HC-2-1500	1500.0	4.10	0.320	0.350	0.370	0.305	1.20
RL-5480HC-2-1800	1800.0	4.44	0.280	0.300	0.330	0.295	1.10
RL-5480HC-2-2200	2200.0	6.13	0.260	0.280	0.290	0.250	1.00
RL-5480HC-2-2700	2700.0	7.04	0.230	0.250	0.270	0.235	0.885
RL-5480HC-2-3300	3300.0	8.57	0.210	0.230	0.245	0.210	0.800
RL-5480HC-2-3900	3900.0	10.6	0.185	0.205	0.215	0.190	0.740
RL-5480HC-2-4700	4700.0	12.3	0.180	0.190	0.205	0.175	0.675
RL-5480HC-2-5600	5600.0	15.9	0.160	0.170	0.180	0.155	0.615
RL-5480HC-2-6800	6800.0	17.8	0.145	0.155	0.165	0.145	0.560
RL-5480HC-2-8200	8200.0	23.3	0.130	0.140	0.150	0.130	0.510
RL-5480HC-2-10000	10000.0	26.6	0.120	0.130	0.135	0.115	0.460
RL-5480HC-2-12000	12000.0	33.7	0.110	0.115	0.125	0.105	0.420
RL-5480HC-2-15000	15000.0	47.3	0.100	0.110	0.115	0.085	0.380
RL-5480HC-2-18000	18000.0	53.8	0.090	0.100	0.105	0.080	0.345
RL-5480HC-2-22000	22000.0	61.4	0.080	0.085	0.090	0.075	0.310
RL-5480HC-2-27000	27000.0	85.5	0.070	0.076	0.080	0.065	0.280
RL-5480HC-2-33000	33000.0	98.5	0.060	0.066	0.070	0.060	0.255
RL-5480HC-2-68000	68000.0	196.7	0.045	0.050	0.054	0.045	0.180

NOTES:

1. INDUCTANCE $\pm 10\%$ TESTED AT 10 kHz, 0.1 Vrms
2. VALUES BELOW 10 μ H ARE $\pm 20\%$
3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. 5% TOLERANCE OPTIONAL ON VALUES 22 μ H AND ABOVE
5. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY PERCENTAGE SHOWN ABOVE
6. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
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RL-5480HC-3

Renco Part No. RL-5480HC-3	Inductance (μ H) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	Irms (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-3-3.9	3.9	0.032	9.48	10.6	11.2	5.20	28.5
RL-5480HC-3-4.7	4.7	0.034	8.23	8.75	8.98	5.10	26.0
RL-5480HC-3-5.6	5.6	0.035	7.93	8.53	8.95	5.00	23.8
RL-5480HC-3-6.8	6.8	0.035	7.50	8.08	8.50	4.75	21.6
RL-5480HC-3-8.2	8.2	0.038	6.68	7.28	7.68	4.55	19.7
RL-5480HC-3-10	10.0	0.042	6.08	6.53	6.93	4.40	15.2
RL-5480HC-3-12	12.0	0.045	5.40	5.93	6.25	4.25	13.5
RL-5480HC-3-15	15.0	0.050	4.88	5.38	5.68	3.40	12.0
RL-5480HC-3-18	18.0	0.055	4.68	5.08	5.28	3.25	11.4
RL-5480HC-3-22	22.0	0.060	4.33	4.43	4.88	3.15	10.2
RL-5480HC-3-27	27.0	0.065	3.88	4.18	4.43	3.00	9.25
RL-5480HC-3-33	33.0	0.070	3.48	3.78	3.98	2.90	8.40
RL-5480HC-3-39	39.0	0.078	3.18	3.58	3.78	2.75	7.70
RL-5480HC-3-47	47.0	0.115	2.98	3.23	3.38	2.25	7.00
RL-5480HC-3-56	56.0	0.135	2.63	2.83	2.98	2.05	6.45
RL-5480HC-3-68	68.0	0.140	2.53	2.73	2.83	2.00	5.85
RL-5480HC-3-82	82.0	0.155	2.23	2.38	2.53	1.90	5.30
RL-5480HC-3-100	100.0	0.180	2.03	2.18	2.33	1.75	4.80
RL-5480HC-3-120	120.0	0.240	1.93	2.08	2.15	1.50	4.40
RL-5480HC-3-150	150.0	0.265	1.73	1.83	1.88	1.40	3.95
RL-5480HC-3-180	180.0	0.285	1.53	1.63	1.73	1.35	3.60
RL-5480HC-3-220	220.0	0.375	1.43	1.53	1.58	1.15	3.25
RL-5480HC-3-270	270.0	0.432	1.18	1.33	1.40	1.10	2.95
RL-5480HC-3-330	330.0	0.545	1.13	1.18	1.23	0.965	2.65
RL-5480HC-3-390	390.0	0.614	0.970	1.08	1.13	0.910	2.45
RL-5480HC-3-470	470.0	0.700	0.890	0.990	1.00	0.850	2.25
RL-5480HC-3-560	560.0	0.936	0.830	0.890	0.950	0.735	2.05
RL-5480HC-3-680	680.0	1.06	0.730	0.810	0.870	0.690	1.85
RL-5480HC-3-820	820.0	1.41	0.690	0.750	0.790	0.600	1.45
RL-5480HC-3-1000	1000.0	1.83	0.590	0.650	0.690	0.525	1.30
RL-5480HC-3-1200	1200.0	2.08	0.560	0.590	0.630	0.490	1.20
RL-5480HC-3-1500	1500.0	2.40	0.510	0.550	0.570	0.460	1.10
RL-5480HC-3-1800	1800.0	3.12	0.450	0.490	0.520	0.400	1.00
RL-5480HC-3-2200	2200.0	3.49	0.415	0.440	0.470	0.380	0.880
RL-5480HC-3-2700	2700.0	4.91	0.380	0.410	0.420	0.320	0.795
RL-5480HC-3-3300	3300.0	5.52	0.310	0.370	0.385	0.300	0.720

NOTES:

1. INDUCTANCE $\pm 10\%$ TESTED AT 10 kHz, 0.1 Vrms
2. VALUES BELOW 10 μ H ARE $\pm 20\%$
3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. 5% TOLERANCE OPTIONAL ON VALUES 22 μ H AND ABOVE
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RL-5480HC-3 Continued

Renco Part No. RL-5480HC-3	Inductance (μ H) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	Irms (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-3-3900	3900.0	7.40	0.290	0.330	0.350	0.260	0.660
RL-5480HC-3-4700	4700.0	9.54	0.270	0.290	0.310	0.230	0.600
RL-5480HC-3-5600	5600.0	10.7	0.250	0.275	0.300	0.215	0.550
RL-5480HC-3-6800	6800.0	12.2	0.230	0.250	0.270	0.205	0.500
RL-5480HC-3-8200	8200.0	13.8	0.210	0.230	0.250	0.190	0.455
RL-5480HC-3-10000	10000.0	18.5	0.180	0.200	0.215	0.165	0.415
RL-5480HC-3-12000	12000.0	21.1	0.165	0.180	0.195	0.155	0.380
RL-5480HC-3-15000	15000.0	24.8	0.155	0.165	0.175	0.140	0.340
RL-5480HC-3-18000	18000.0	30.8	0.140	0.155	0.160	0.125	0.310
RL-5480HC-3-22000	22000.0	35.1	0.130	0.145	0.150	0.115	0.280
RL-5480HC-3-27000	27000.0	47.1	0.115	0.125	0.130	0.100	0.255
RL-5480HC-3-33000	33000.0	54.4	0.105	0.110	0.115	0.095	0.230
RL-5480HC-3-39000	39000.0	73.2	0.090	0.100	0.105	0.080	0.210
RL-5480HC-3-47000	47000.0	78.9	0.082	0.090	0.098	0.080	0.190
RL-5480HC-3-56000	56000.0	86.6	0.074	0.084	0.094	0.075	0.175
RL-5480HC-3-68000	68000.0	121.8	0.068	0.076	0.080	0.065	0.160

RL-5480HC-4

Renco Part No. RL-5480HC-4	Inductance (μ H) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	Irms (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-4-3.9	3.9	0.023	22.4	23.9	24.5	6.45	36.1
RL-5480HC-4-4.7	4.7	0.023	21.5	22.4	23.4	6.40	32.9
RL-5480HC-4-5.6	5.6	0.025	20.0	21.9	22.1	6.15	30.1
RL-5480HC-4-6.8	6.8	0.032	19.2	20.6	21.5	5.25	27.3
RL-5480HC-4-8.2	8.2	0.032	17.0	17.9	18.5	5.20	24.9
RL-5480HC-4-10	10.0	0.033	14.9	16.0	16.5	5.10	22.6
RL-5480HC-4-12	12.0	0.034	14.2	15.1	16.0	5.05	20.6
RL-5480HC-4-15	15.0	0.036	13.0	13.6	14.4	4.90	18.4
RL-5480HC-4-18	18.0	0.040	12.3	13.4	14.2	4.65	16.8
RL-5480HC-4-22	22.0	0.045	10.1	10.9	11.5	4.25	7.60
RL-5480HC-4-27	27.0	0.052	9.68	10.2	10.8	3.95	6.85
RL-5480HC-4-33	33.0	0.058	8.68	9.28	9.58	3.75	6.20
RL-5480HC-4-39	39.0	0.062	7.78	8.28	8.58	3.60	5.70
RL-5480HC-4-47	47.0	0.073	7.38	7.89	8.38	3.35	5.20
RL-5480HC-4-56	56.0	0.075	2.50	2.50	2.50	3.30	4.80
RL-5480HC-4-68	68.0	0.098	6.43	6.85	7.25	2.90	4.35

NOTES:

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2. VALUES BELOW 10 μ H ARE $\pm 20\%$
3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. 5% TOLERANCE OPTIONAL ON VALUES 22 μ H AND ABOVE
5. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY PERCENTAGE SHOWN ABOVE
6. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
7. PART FINISHED WITH 135°C POLYOLEFIN SLEEVING THAT MEETS UL-224 VW-1



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RL-5480HC-4 Continued

Renco Part No. RL-5480HC-4	Inductance (μH) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	I _{rms} (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-4-82	82.0	0.100	5.38	5.88	6.18	2.85	3.95
RL-5480HC-4-100	100.0	0.128	5.23	5.68	6.05	2.45	3.60
RL-5480HC-4-120	120.0	0.160	4.68	5.08	5.28	2.20	3.25
RL-5480HC-4-150	150.0	0.175	3.58	4.10	4.48	2.10	2.95
RL-5480HC-4-180	180.0	0.232	3.78	4.08	4.28	1.75	2.05
RL-5480HC-4-220	220.0	0.264	3.28	3.58	3.78	1.65	1.85
RL-5480HC-4-270	270.0	0.280	3.08	3.28	3.48	1.60	1.65
RL-5480HC-4-330	330.0	0.380	2.78	2.98	3.13	1.40	1.50
RL-5480HC-4-390	390.0	0.420	2.50	2.73	2.83	1.30	1.40
RL-5480HC-4-470	470.0	0.590	2.45	2.60	2.75	1.10	1.25
RL-5480HC-4-560	560.0	0.648	2.23	2.45	2.53	1.05	1.15
RL-5480HC-4-680	680.0	0.740	2.00	2.15	2.30	0.990	1.05
RL-5480HC-4-820	820.0	0.930	1.78	1.93	2.03	0.880	0.950
RL-5480HC-4-1000	1000.0	1.22	1.58	1.68	1.73	0.770	0.900
RL-5480HC-4-1200	1200.0	1.40	1.40	1.55	1.70	0.720	0.800
RL-5480HC-4-1500	1500.0	1.53	1.33	1.38	1.48	0.690	0.695
RL-5480HC-4-1800	1800.0	2.26	1.25	1.33	1.40	0.565	0.635
RL-5480HC-4-2200	2200.0	2.51	1.08	1.18	1.23	0.535	0.575
RL-5480HC-4-2700	2700.0	2.95	0.920	0.980	1.10	0.495	0.520
RL-5480HC-4-3300	3300.0	3.60	0.900	0.980	1.03	0.450	0.470
RL-5480HC-4-3900	3900.0	5.05	0.790	0.870	0.930	0.380	0.435
RL-5480HC-4-4700	4700.0	5.35	0.710	0.770	0.810	0.370	0.395
RL-5480HC-4-5600	5600.0	6.42	0.690	0.750	0.810	0.335	0.360
RL-5480HC-4-6800	6800.0	8.35	0.590	0.650	0.690	0.295	0.330
RL-5480HC-4-8200	8200.0	9.34	0.570	0.610	0.650	0.280	0.295
RL-5480HC-4-10000	10000.0	12.9	0.530	0.570	0.590	0.235	0.240
RL-5480HC-4-12000	12000.0	14.3	0.480	0.510	0.550	0.225	0.220
RL-5480HC-4-15000	15000.0	18.5	0.400	0.430	0.450	0.200	0.195
RL-5480HC-4-18000	18000.0	25.2	0.360	0.390	0.410	0.165	0.180
RL-5480HC-4-22000	22000.0	27.5	0.320	0.350	0.370	0.160	0.160
RL-5480HC-4-27000	27000.0	30.5	0.290	0.320	0.340	0.150	0.145
RL-5480HC-4-33000	33000.0	38.5	0.280	0.310	0.320	0.135	0.135
RL-5480HC-4-39000	39000.0	49.0	0.250	0.280	0.290	0.120	0.125
RL-5480HC-4-47000	47000.0	54.2	0.230	0.260	0.270	0.110	0.110
RL-5480HC-4-56000	56000.0	69.2	0.210	0.220	0.230	0.095	0.105
RL-5480HC-4-68000	68000.0	82.5	0.180	0.200	0.210	0.065	0.095
RL-5480HC-4-82000	82000.0	102.4	0.160	0.180	0.190	0.055	0.085
RL-5480HC-4-100000	100000.0	120.0	0.150	0.160	0.170	0.050	0.080

NOTES:

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2. VALUES BELOW 10 μH ARE $\pm 20\%$
3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. 5% TOLERANCE OPTIONAL ON VALUES 22 μH AND ABOVE
5. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY PERCENTAGE SHOWN ABOVE
6. I_{rms} - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
7. PART FINISHED WITH 135°C POLYOLEFIN SLEEVING THAT MEETS UL-224 VW-1



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RL-5480HC-5

Renco Part No. RL-5480HC-5	Inductance (μ H) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	Irms (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-5-3.9	3.9	0.011	19.0	20.7	21.8	9.50	28.5
RL-5480HC-5-4.7	4.7	0.012	17.6	19.0	20.0	9.35	26.0
RL-5480HC-5-5.6	5.6	0.012	17.0	18.0	19.0	9.30	23.8
RL-5480HC-5-6.8	6.8	0.014	15.1	16.3	17.2	9.15	21.6
RL-5480HC-5-8.2	8.2	0.015	13.1	14.4	15.2	8.80	19.7
RL-5480HC-5-10	10.0	0.017	12.4	13.3	14.1	8.25	17.8
RL-5480HC-5-12	12.0	0.018	12.2	13.3	14.0	8.00	16.3
RL-5480HC-5-15	15.0	0.020	9.80	10.9	11.6	7.80	10.0
RL-5480HC-5-18	18.0	0.023	8.68	9.58	10.2	7.45	9.10
RL-5480HC-5-22	22.0	0.025	7.93	8.75	9.43	7.25	8.25
RL-5480HC-5-27	27.0	0.030	7.55	8.08	8.53	6.40	7.45
RL-5480HC-5-33	33.0	0.033	6.58	7.25	7.63	6.10	6.75
RL-5480HC-5-39	39.0	0.035	6.05	6.80	7.25	5.95	6.20
RL-5480HC-5-47	47.0	0.039	5.75	6.13	6.50	5.60	5.65
RL-5480HC-5-56	56.0	0.043	5.38	5.90	6.20	5.35	5.20
RL-5480HC-5-68	68.0	0.048	4.38	5.30	5.75	5.05	4.70
RL-5480HC-5-82	82.0	0.054	4.33	4.78	5.08	4.65	4.30
RL-5480HC-5-100	100.0	0.062	4.15	4.50	4.90	4.30	3.90
RL-5480HC-5-120	120.0	0.085	3.95	4.25	4.48	3.70	3.55
RL-5480HC-5-150	150.0	0.102	3.13	3.43	3.65	3.35	3.20
RL-5480HC-5-180	180.0	0.110	2.98	3.18	3.38	3.15	2.55
RL-5480HC-5-220	220.0	0.140	2.53	2.83	3.05	2.80	2.30
RL-5480HC-5-270	270.0	0.152	2.48	2.78	2.93	2.70	2.10
RL-5480HC-5-330	330.0	0.175	2.28	2.48	2.63	2.50	1.90
RL-5480HC-5-390	390.0	0.200	2.13	2.28	2.43	2.35	1.75
RL-5480HC-5-470	470.0	0.280	1.85	2.00	2.15	1.90	1.60
RL-5480HC-5-560	560.0	0.307	1.78	1.93	1.98	1.85	1.45
RL-5480HC-5-680	680.0	0.360	1.63	1.73	1.78	1.70	1.35
RL-5480HC-5-820	820.0	0.578	1.40	1.55	1.70	1.35	1.15
RL-5480HC-5-1000	1000.0	0.610	1.33	1.38	1.43	1.30	1.10
RL-5480HC-5-1200	1200.0	0.688	1.20	1.23	1.33	1.25	1.00
RL-5480HC-5-1500	1500.0	0.817	1.10	1.18	1.25	1.15	0.880
RL-5480HC-5-1800	1800.0	0.922	0.930	1.03	1.08	1.05	0.800
RL-5480HC-5-2200	2200.0	1.33	0.820	0.920	0.990	0.880	0.725
RL-5480HC-5-2700	2700.0	1.52	0.750	0.850	0.910	0.825	0.655
RL-5480HC-5-3300	3300.0	1.84	0.670	0.730	0.790	0.750	0.595
RL-5480HC-5-3900	3900.0	2.05	0.650	0.710	0.760	0.710	0.545

NOTES:

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2. VALUES BELOW 10 μ H ARE $\pm 20\%$
3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. 5% TOLERANCE OPTIONAL ON VALUES 22 μ H AND ABOVE
5. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY PERCENTAGE SHOWN ABOVE
6. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
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RL-5480HC-5 Continued

Renco Part No. RL-5480HC-5	Inductance (μ H) $\pm 10\%$	DCR Max. (Ohms)	Isat (A) 10% L Drop	Isat (A) 15% L Drop	Isat (A) 20% L Drop	Irms (A) (Typ.)	SRF (MHz) (Typ.)
RL-5480HC-5-4700	4700.0	2.69	0.550	0.600	0.670	0.620	0.495
RL-5480HC-5-5600	5600.0	3.01	0.530	0.570	0.630	0.585	0.455
RL-5480HC-5-6800	6800.0	3.50	0.480	0.530	0.550	0.545	0.415
RL-5480HC-5-8200	8200.0	4.73	0.430	0.480	0.510	0.465	0.375
RL-5480HC-5-10000	10000.0	5.40	0.410	0.440	0.470	0.435	0.340
RL-5480HC-5-12000	12000.0	6.15	0.360	0.400	0.440	0.410	0.310
RL-5480HC-5-15000	15000.0	8.04	0.350	0.380	0.400	0.360	0.280
RL-5480HC-5-18000	18000.0	11.1	0.300	0.330	0.350	0.305	0.255
RL-5480HC-5-22000	22000.0	12.1	0.260	0.290	0.310	0.290	0.215
RL-5480HC-5-27000	27000.0	14.5	0.230	0.260	0.280	0.265	0.195
RL-5480HC-5-33000	33000.0	19.1	0.210	0.230	0.250	0.235	0.180
RL-5480HC-5-39000	39000.0	21.5	0.200	0.220	0.235	0.220	0.165
RL-5480HC-5-47000	47000.0	27.1	0.170	0.190	0.210	0.190	0.150
RL-5480HC-5-56000	56000.0	30.5	0.165	0.185	0.195	0.180	0.135
RL-5480HC-5-68000	68000.0	35.0	0.145	0.165	0.175	0.165	0.125
RL-5480HC-5-82000	82000.0	44.1	0.130	0.145	0.155	0.150	0.105
RL-5480HC-5-100000	100000.0	60.0	0.120	0.135	0.140	0.130	0.095
RL-5480HC-5-120000	120000.0	67.5	0.110	0.120	0.130	0.120	0.085
RL-5480HC-5-150000	150000.0	78.5	0.100	0.110	0.115	0.110	0.080
RL-5480HC-5-180000	180000.0	104.5	0.090	0.095	0.100	0.095	0.070
RL-5480HC-5-220000	220000.0	119.5	0.085	0.090	0.095	0.090	0.065
RL-5480HC-5-270000	270000.0	160.0	0.075	0.085	0.090	0.080	0.060

NOTES:

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