



# RL-1282

## RL-1283, RL-1284, RL-1288

### POWER LINE CHOKES



This Series, in four sizes, of Power Line Chokes has 204 standard values to choose from. Inductances range from 1.0 $\mu$ H to 150,000 $\mu$ H. The use of high saturation material make these coils ideal for use in switching regulated power supply type applications. The size of the coils make them easy to incorporate in equipment.

### Typical Applications:

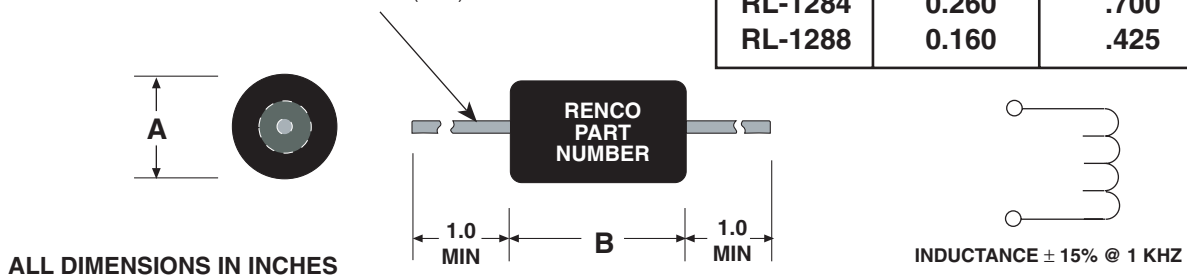
- Switching Regulators
- Power Amplifiers
- Power Supplies
- SCR and Triac Controls
- Speaker Crossover Networks
- RFI Suppression
- Filters

Also available taped & reeled for auto insertion.

PART NO.	PIECES PER REEL
RL-1282	200
RL-1283	250
RL-1284	500
RL-1288	500

MAXIMUM DIMENSIONS:		
	"A"	"B"
RL-1282	0.550	1.000
RL-1283	0.453	.900
RL-1284	0.260	.700
RL-1288	0.160	.425

LEADS:  
 RL-1282, RL-1283, RL-1284 #20 AWG TINNED COPPER WIRE (TYP.)  
 RL-1288 #24 AWG TINNED COPPER WIRE (TYP.)



## RENCO ELECTRONICS, INC.

595 International Place, Rockledge, FL 32955-4200 USA  
 (321) 637-1000 • Toll Free Engineering Hot line 800-645-5828  
 Fax: (321) 637-1600 Web Site: [www.rencousa.com](http://www.rencousa.com) E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)

<b>RL-1282</b> Renco Part No.	Inductance at 0 DC ( $\mu$ H)	Max. DCR (Ohms) @ +20°C	Saturation Current (DC Amps)	Suggested Rated Current (Amps)
RL-1282-3.9	3.9	.007	47.0	6.0
RL-1282-4.7	4.7	.008	42.0	6.0
RL-1282-5.6	5.6	.009	35.0	6.0
RL-1282-6.8	6.8	.010	29.0	6.0
RL-1282-8.2	8.2	.011	24.0	6.0
RL-1282-10	10	.012	19.0	6.0
RL-1282-12	12	.013	16.0	6.0
RL-1282-15	15	.014	14.8	6.0
RL-1282-18	18	.015	13.4	6.0
RL-1282-22	22	.016	12.4	6.0
RL-1282-27	27	.017	11.2	6.0
RL-1282-33	33	.021	10.2	6.0
RL-1282-39	39	.023	9.3	6.0
RL-1282-47	47	.025	8.7	6.0
RL-1282-56	56	.028	8.0	6.0
RL-1282-68	68	.039	7.0	4.7
RL-1282-82	82	.043	6.3	4.7
RL-1282-100	100	.055	5.7	3.8
RL-1282-120	120	.076	5.3	3.0
RL-1282-150	150	.084	4.7	3.0
RL-1282-180	180	.096	4.3	3.0
RL-1282-220	220	.108	4.0	3.0
RL-1282-270	270	.151	3.6	2.3
RL-1282-330	330	.168	3.2	2.3
RL-1282-390	390	.182	2.9	2.3
RL-1282-470	470	.202	2.6	2.3
RL-1282-560	560	.348	2.4	1.4
RL-1282-680	680	.470	2.2	1.2
RL-1282-820	820	.500	2.0	1.2
RL-1282-1000	1000	.570	1.8	1.2
RL-1282-1200	1200	.648	1.70	1.200
RL-1282-1500	1500	.888	1.55	0.900
RL-1282-1800	1800	1.16	1.40	0.750
RL-1282-2200	2200	1.20	1.25	0.750
RL-1282-2700	2700	1.44	1.10	0.750
RL-1282-3300	3300	1.92	1.000	0.590
RL-1282-3900	3900	2.16	0.900	0.590
RL-1282-4700	4700	2.50	0.850	0.590
RL-1282-5600	5600	3.20	0.780	0.450
RL-1282-6800	6800	4.00	0.700	0.450
RL-1282-8200	8200	5.20	0.650	0.350
RL-1282-10000	10000	6.00	0.600	0.350
RL-1282-12000	12000	8.00	0.540	0.270
RL-1282-15000	15000	10.00	0.480	0.200
RL-1282-18000	18000	11.00	0.460	0.200
RL-1282-22000	22000	13.00	0.390	0.200
RL-1282-27000	27000	15.00	0.355	0.200
RL-1282-33000	33000	21.00	0.330	0.160
RL-1282-39000	39000	23.20	0.300	0.160
RL-1282-47000	47000	32.00	0.270	0.120
RL-1282-56000	56000	35.00	0.175	0.120
RL-1282-68000	68000	48.00	0.145	0.095
RL-1282-82000	82000	54.30	0.120	0.095
RL-1282-100000	100000	68.50	0.100	0.070
RL-1282-120000	120000	75.00	0.080	0.070
RL-1282-150000	150000	84.30	0.060	0.070

**NOTES:**

1. Inductance  $\pm$  15% measured at 1 kHz.
2. Saturation current lowers inductance 5%.
3. Coils finished with sleeving VW1 rated.
4. Max. temperature range -55°C to + 130°C.
5. 10% and 5% tolerances optional.
- 6. For applications over 24 Volts verify operation with sample in actual circuit.**



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RL-1283	Inductance at 0 DC (μH)	Max. DCR (Ohms) @ +20°C	Saturation Current (DC Amps)	Suggested Rated Current (Amps)
Renco Part No.				
RL-1283-3.9	3.9	.007	15.5	4.0
RL-1283-4.7	4.7	.008	13.9	4.0
RL-1283-5.6	5.6	.011	12.6	4.0
RL-1283-6.8	6.8	.011	11.6	4.0
RL-1283-8.2	8.2	.013	9.89	4.0
RL-1283-10	10	.017	8.70	4.0
RL-1283-12	12	.019	8.21	4.0
RL-1283-15	15	.022	7.34	4.0
RL-1283-18	18	.023	6.64	4.0
RL-1283-22	22	.026	6.07	4.0
RL-1283-27	27	.027	5.36	4.0
RL-1283-33	33	.032	4.82	4.0
RL-1283-39	39	.033	4.36	4.0
RL-1283-47	47	.035	3.98	4.0
RL-1283-56	56	.037	3.66	3.2
RL-1283-68	68	.047	3.31	2.5
RL-1283-82	82	.060	3.10	2.0
RL-1283-100	100	.090	2.79	1.6
RL-1283-120	120	.113	2.54	1.6
RL-1283-150	150	.129	2.22	1.6
RL-1283-180	180	.150	1.98	1.6
RL-1283-220	220	.162	1.89	1.6
RL-1283-270	270	.208	1.63	1.6
RL-1283-330	330	.212	1.51	1.6
RL-1283-390	390	.281	1.39	1.6
RL-1283-470	470	.380	1.24	1.2
RL-1283-560	560	.420	1.17	1.0
RL-1283-680	680	.548	1.05	1.0
RL-1283-820	820	.655	.97	0.8
RL-1283-1000	1000	.844	.87	0.8
RL-1283-1200	1200	1.04	.79	0.6
RL-1283-1500	1500	1.18	.70	0.6
RL-1283-1800	1800	1.56	.64	0.6
RL-1283-2200	2200	2.00	.58	0.5
RL-1283-2700	2700	2.06	.53	0.4
RL-1283-3300	3300	2.53	.47	0.4
RL-1283-3900	3900	2.75	.43	0.4
RL-1283-4700	4700	3.19	.39	0.4
RL-1283-5600	5600	5.92	.359	0.315
RL-1283-6800	6800	5.69	.322	0.250
RL-1283-8200	8200	6.32	.293	0.250
RL-1283-10000	10000	7.30	.266	0.250
RL-1283-12000	12000	9.21	.241	0.200
RL-1283-15000	15000	10.50	.214	0.200
RL-1283-18000	18000	14.80	.198	0.158
RL-1283-22000	22000	21.80	.180	0.125
RL-1283-27000	27000	22.70	.162	0.125
RL-1283-33000	33000	25.70	.146	0.125
RL-1283-39000	39000	31.80	.135	0.100
RL-1283-47000	47000	36.10	.122	0.100
RL-1283-56000	56000	40.90	.112	0.100
RL-1283-68000	68000	57.30	.101	0.082
RL-1283-82000	82000	79.30	.090	0.065
RL-1283-100000	100000	89.70	.081	0.065

**NOTES:**

1. Inductance ±15% measured at 1kHz.
2. Saturation current lowers inductance 5%.
3. Coils finished with sleeving VW1 rated.
4. Encapsulated to MIL-STD-27D available, see Renco RL-1325 Series.
5. Maximum temperature range -55°C to +130°C.
6. Nonstandard values available.
7. 10% and 5% tolerance optional.
8. **For applications over 24 Volts verify operation with sample in actual circuit.**



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<b>RL-1284</b>	Inductance at 0 DC ( $\mu$ H)	Max. DCR (Ohms) @+20°C	Saturation Current (DC Amps)	Suggested Rated Current (Amps)
Renco Part No.				
RL-1284-3.9	3.9	.019	7.3	1.28
RL-1284-4.7	4.7	.022	6.3	1.28
RL-1284-5.6	5.6	.024	5.6	1.28
RL-1284-6.8	6.8	.026	5.3	1.28
RL-1284-8.2	8.2	.028	4.5	1.28
RL-1284-10	10	.033	4.1	1.28
RL-1284-12	12	.037	3.6	1.28
RL-1284-15	15	.040	3.3	1.28
RL-1284-18	18	.044	3.0	1.28
RL-1284-22	22	.050	2.7	1.28
RL-1284-27	27	.058	2.5	1.280
RL-1284-33	33	.075	2.2	1.008
RL-1284-39	39	.094	2.0	.804
RL-1284-47	47	.109	1.8	.804
RL-1284-56	56	.140	1.7	.804
RL-1284-68	68	.145	1.5	.804
RL-1284-82	82	.152	1.4	.804
RL-1284-100	100	.218	1.2	.632
RL-1284-120	120	.283	1.1	.508
RL-1284-150	150	.340	1.0	.508
RL-1284-180	180	.362	.95	.508
RL-1284-220	220	.430	.86	.508
RL-1284-270	270	.557	.77	.400
RL-1284-330	330	.665	.70	.400
RL-1284-390	390	.772	.64	.400
RL-1284-470	470	1.15	.59	.315
RL-1284-560	560	1.27	.54	.315
RL-1284-680	680	1.61	.49	.250
RL-1284-820	820	1.96	.44	.200
RL-1284-1000	1000	2.30	.40	.200
RL-1284-1200	1200	2.65	.35	.200
RL-1284-1500	1500	3.45	.33	.158
RL-1284-1800	1800	4.03	.29	.158
RL-1284-2200	2200	4.48	.27	.158
RL-1284-2700	2700	5.90	.24	.125
RL-1284-3300	3300	6.56	.220	.125
RL-1284-3900	3900	8.63	.200	.100
RL-1284-4700	4700	10.50	.180	.100
RL-1284-5600	5600	13.90	.166	.082
RL-1284-6800	6800	16.30	.151	.082
RL-1284-8200	8200	20.80	.136	.065
RL-1284-10000	10000	26.40	.125	.050
RL-1284-12000	12000	29.90	.114	.050
RL-1284-15000	15000	42.50	.098	.039
RL-1284-18000	18000	48.30	.091	.039

**NOTES:**

1. Inductance  $\pm$ 15% measured at 1kHz.
2. Saturation current lowers inductance 5%.
3. Coils finished with sleeving VW1 rated.
4. Encapsulated to MIL-STD-27D available, see Renco RL-1326 Series.
5. Maximum temperature -55°C to +130°C.
6. Nonstandard values available.
7. 10% and 5% tolerance optional.
8. **For applications over 24 Volts verify operation with sample in actual circuit.**



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<b>RL-1288</b>	Inductance at 0 DC ( $\mu$ H) $\pm 10\%$	Max. DCR (Ohms) @ +20°C	Saturation Current (mA)	Suggested Rated Current (mA)
Renco Part No.				
RL-1288-1.0	1.0	.018	3000	3300
RL-1288-1.2	1.2	.019	2700	3200
RL-1288-1.5	1.5	.020	2500	3100
RL-1288-1.8	1.8	.023	2100	2900
RL-1288-2.2	2.2	.031	2000	2600
RL-1288-2.7	2.7	.033	1900	2500
RL-1288-3.3	3.3	.054	1700	1900
RL-1288-3.9	3.9	.060	1500	1800
RL-1288-4.7	4.7	.068	1400	1700
RL-1288-5.6	5.6	.074	1300	1600
RL-1288-6.8	6.8	.080	1200	1600
RL-1288-8.2	8.2	.087	1100	1500
RL-1288-10	10	.095	970	1500
RL-1288-12	12	.110	880	1400
RL-1288-15	15	.121	790	1200
RL-1288-18	18	.160	710	1100
RL-1288-22	22	.190	640	1000
RL-1288-27	27	.220	580	950
RL-1288-33	33	.350	530	910
RL-1288-39	39	.260	480	880
RL-1288-47	47	.430	430	760
RL-1288-56	56	.470	400	650
RL-1288-68	68	.530	370	610
RL-1288-82	82	.600	330	580
RL-1288-100	100	.670	300	550
RL-1288-120	120	.900	270	470
RL-1288-150	150	1.20	250	410
RL-1288-180	180	1.40	220	380
RL-1288-220	220	1.90	200	320
RL-1288-270	270	2.10	180	310
RL-1288-330	330	2.40	170	290
RL-1288-390	390	3.0	150	260
RL-1288-470	470	3.80	140	240
RL-1288-560	560	4.70	130	210
RL-1288-680	680	6.40	110	180
RL-1288-820	820	7.1	100	170
RL-1288-1000	1000	7.9	95	160
RL-1288-1200	1200	9.0	87	150
RL-1288-1500	1500	12.0	78	130
RL-1288-1800	1800	14.0	71	120
RL-1288-2200	2200	19.0	64	100
RL-1288-2700	2700	25.0	58	90
RL-1288-3300	3300	29.0	52	83
RL-1288-3900	3900	34.0	48	77
RL-1288-4700	4700	42.55	44	74
RL-1288-5600	5600	50.0	40	63
RL-1288-6800	6800	58.0	36	59
RL-1288-8200	8200	68.0	33	54
RL-1288-10000	10000	75.0	30	52

**NOTES:**

1. Inductance: For 1.0 $\mu$ H thru 8.2 $\mu$ H effective inductance measured on Boonton 260A Q-meter at 7.9 MHz in accordance with Mil.-C 15305. For 10 $\mu$ H and above, inductance (Ls) measured on Impedance Meter ESI Model 252 at 1 KHz.
2. Current Rating is based on 0.2 watt power dissipation for approximately 20°C temperature rise.
3. Maximum temperature range -55°C to +130°C.
4. Marking: Printed with value only
5. Saturation current lowers inductance 5%.
6. Coils finished with sleeving 135°C Rated.



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