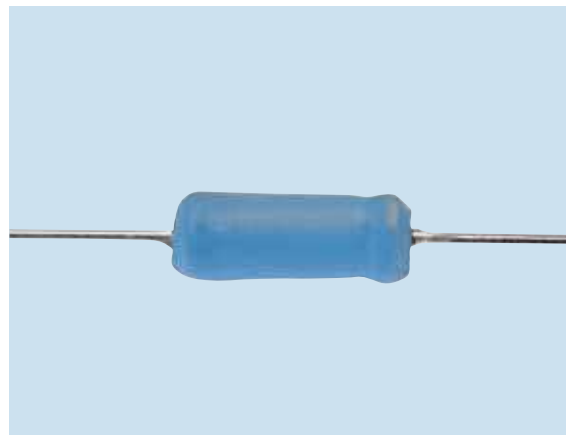




RL-1294

AXIAL LEADED HIGH FREQUENCY INDUCTOR

DESCRIPTION

- Axial Leaded Inductor

ENVIRONMENTAL DATA

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

PACKAGING INFORMATION

- Packaging information: pgs. 489, 493

FEATURES & APPLICATIONS

- Engineered for low loss in high frequency switching applications
- 45 standard values ranging from 3.9μH to 18,000μH
- Rated currents to 1.28 A and saturations up to 3.60 ADC
- Typical applications include: step-down switching regulators, step-up switching regulators, continuous voltage supplies, high voltage line filtering, and surge suppression

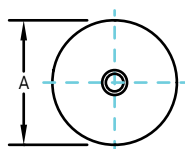
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

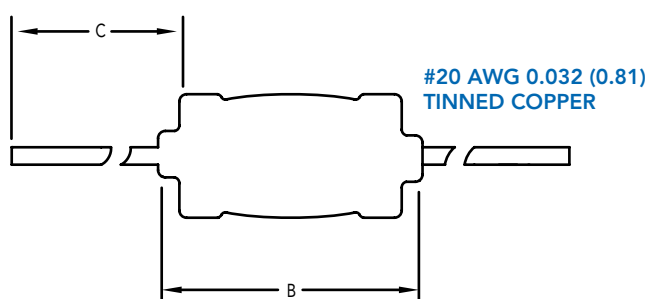
U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MIN.)	PART WEIGHT
RL-1294	0.25 (6.35)	0.70 (17.78)	1.00 (25.40)	1.5g (0.053oz)

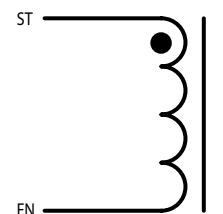
FRONT VIEW



SIDE VIEW



SCHEMATIC



RENCO ELECTRONICS INC.

595 International Place, Rockledge, FL 32955-4200 USA • www.rencousa.com • ISO 9001 Certified
Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600



RL-1294

Renco Part No. RL-1294	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-1294-3.9	3.90	0.029	3.60	1.280
RL-1294-4.7	4.70	0.027	3.30	1.280
RL-1294-5.6	5.60	0.024	3.00	1.280
RL-1294-6.8	6.80	0.026	2.70	1.280
RL-1294-8.2	8.20	0.028	2.50	1.280
RL-1294-10	10.0	0.033	2.30	1.280
RL-1294-12	12.0	0.037	2.10	1.280
RL-1294-15	15.0	0.040	1.90	1.280
RL-1294-18	18.0	0.044	1.70	1.280
RL-1294-22	22.0	0.050	1.50	1.280
RL-1294-27	27.0	0.058	1.40	1.280
RL-1294-33	33.0	0.075	1.30	1.008
RL-1294-39	39.0	0.094	1.20	0.804
RL-1294-47	47.0	0.109	1.10	0.804
RL-1294-56	56.0	0.140	0.97	0.804
RL-1294-68	68.0	0.145	0.88	0.804
RL-1294-82	82.0	0.152	0.80	0.804
RL-1294-100	100.0	0.208	0.73	0.632
RL-1294-120	120.0	0.283	0.66	0.508
RL-1294-150	150.0	0.340	0.60	0.508
RL-1294-180	180.0	0.362	0.54	0.508
RL-1294-220	220.0	0.430	0.49	0.508
RL-1294-270	270.0	0.557	0.45	0.400
RL-1294-330	330.0	0.665	0.40	0.400
RL-1294-390	390.0	0.772	0.37	0.400
RL-1294-470	470.0	01.15	0.34	0.315

RL-1294 TABLE CONTINUES ON FOLLOWING PAGE

NOTES:

1. INDUCTANCE $\pm 15\%$ TESTED AT 1.0 kHz, 0.1 Vrms
2. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 5%
3. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
4. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
5. SUGGESTED MAXIMUM VOLTAGE 100V
6. PART FINISHED WITH 135°C POLYOLEFIN SLEEVING THAT MEETS UL-224 VW-1
7. DISTINCTIVE BLUE SLEEVING
8. AVAILABLE TAPE AND REEL FOR AUTO-INSERTION



RENCO ELECTRONICS INC.

595 International Place, Rockledge, FL 32955-4200 USA • www.rencousa.com • ISO 9001 Certified
Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600



RL-1294

Renco Part No. RL-1294	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-1294-560	560.0	1.27	0.31	0.315
RL-1294-680	680.0	1.61	0.28	0.250
RL-1294-820	820.0	1.96	0.26	0.200
RL-1294-1000	1000.0	2.30	0.23	0.200
RL-1294-1200	1200.0	2.65	0.21	0.200
RL-1294-1500	1500.0	3.45	0.19	0.158
RL-1294-1800	1800.0	4.03	0.18	0.158
RL-1294-2200	2200.0	4.48	0.16	0.158
RL-1294-2700	2700.0	5.90	0.14	0.125
RL-1294-3300	3300.0	6.56	0.13	0.125
RL-1294-3900	3900.0	8.63	0.12	0.100
RL-1294-4700	4700.0	10.5	0.11	0.100
RL-1294-5600	5600.0	13.9	0.10	0.082
RL-1294-6800	6800.0	16.3	0.09	0.082
RL-1294-8200	8200.0	20.8	0.08	0.065
RL-1294-10000	10000.0	26.4	0.08	0.050
RL-1294-12000	12000.0	29.9	0.07	0.050
RL-1294-15000	15000.0	42.5	0.06	0.039
RL-1294-18000	18000.0	48.3	0.06	0.039

NOTES:

1. INDUCTANCE $\pm 15\%$ TESTED AT 1.0 kHz, 0.1 Vrms
2. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 5%
3. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
4. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
5. SUGGESTED MAXIMUM VOLTAGE 100V
6. PART FINISHED WITH 135°C POLYOLEFIN SLEEVING THAT MEETS UL-224 VW-1
7. DISTINCTIVE BLUE SLEEVING
8. AVAILABLE TAPE AND REEL FOR AUTO-INSERTION



RENCO ELECTRONICS INC.

595 International Place, Rockledge, FL 32955-4200 USA • www.rencousa.com • ISO 9001 Certified
Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600

