



RL-8200

SMD POWER INDUCTORS

DESCRIPTION

- SMD Power Inductor

ENVIRONMENTAL DATA

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

PACKAGING INFORMATION

- Packaging information: pg. 495

FEATURES & APPLICATIONS

- Designed to handle exceptionally high current while maintaining a low profile
- Toroid winding virtually eliminates electromagnetic emissions
- Self-leded design ensures reliability

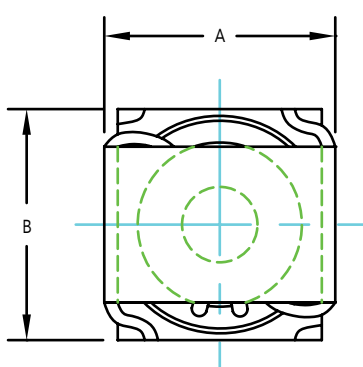
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

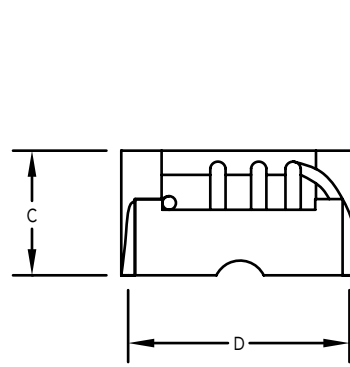
U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D	E (REF.)	F (REF.)	G (REF.)
RL-8200-1	0.34 (8.64)	0.34 (8.64)	0.28 (7.00)	0.26 (6.60)	0.30 (7.62)	0.27 (6.86)	0.06 (1.52)
RL-8200-2	0.44 (11.18)	0.44 (11.18)	0.37 (9.50)	0.35 (8.89)	0.40 (10.16)	0.36 (9.14)	0.06 (1.52)
RL-8200-3	0.56 (14.22)	0.56 (14.22)	0.37 (9.50)	0.45 (11.43)	0.52 (13.21)	0.46 (11.68)	0.06 (1.52)
RL-8200-4	0.59 (14.99)	0.61 (15.62)	0.41 (10.50)	0.50 (12.70)	0.55 (13.97)	0.51 (12.95)	0.06 (1.52)
RL-8200-5	0.67 (17.02)	0.70 (17.78)	0.41 (10.50)	0.58 (14.73)	0.62 (15.75)	0.59 (14.99)	0.06 (1.52)
RL-8200-6	0.66 (16.89)	0.66 (16.89)	0.41 (10.50)	0.56 (14.22)	0.49 (12.45)	0.57 (14.48)	0.08 (2.03)
RL-8200-7	0.74 (18.80)	0.74 (18.80)	0.41 (10.50)	0.63 (16.00)	0.56 (14.22)	0.64 (13.26)	0.08 (2.03)
RL-8200-8	0.96 (23.88)	0.96 (23.88)	0.41 (10.50)	0.82 (20.83)	0.70 (17.78)	0.83 (21.08)	0.08 (2.03)

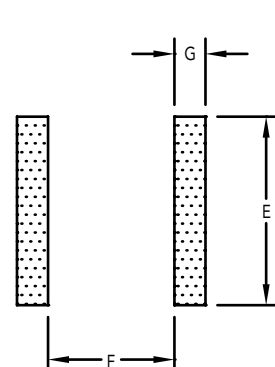
FRONT VIEW



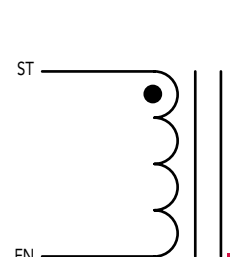
SIDE VIEW



RECOMMENDED LAND PATTERN



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-8200

Renco Part No. RL-8200	Inductance (μH) @ 0A ± 20%	Inductance (μH) Typical @ Isat	DCR Max. (mOhms)	SRF (MHz) Typ.	Isat (A)
RL-8200-1-1.1	1.1	1.01	16.0	360.0	3.40
RL-8200-1-7.0	7.0	6.20	95.0	70.0	1.40
RL-8200-1-23	23.0	17.60	320.0	21.0	1.00
RL-8200-2-5.2	5.2	3.80	19.9	60.0	4.80
RL-8200-2-12	12.0	9.40	47.2	33.0	2.80
RL-8200-2-35	35.0	29.70	166.0	12.0	1.40
RL-8200-2-170	170.0	114.00	640.0	3.3	0.94
RL-8200-3-3.8	3.8	2.50	9.3	133.0	8.00
RL-8200-3-7.5	7.5	5.10	18.7	73.0	5.40
RL-8200-3-22	22.0	16.20	63.0	34.0	2.70
RL-8200-3-73	73.0	58.10	290.0	5.0	1.30
RL-8200-3-290	290.0	192.00	657.0	2.3	0.90
RL-8200-3-670	670.0	383.00	1200.0	1.2	0.72
RL-8200-4-7.9	7.9	4.90	16.2	49.0	7.80
RL-8200-4-14	14.0	9.00	23.6	20.0	5.50
RL-8200-4-41	41.0	29.10	85.0	9.5	2.70
RL-8200-4-1100	1100.0	670.00	1908.0	0.73	0.70
RL-8200-5-16	16.0	9.30	19.7	19.0	7.20
RL-8200-5-26	26.0	16.10	32.0	9.2	5.10
RL-8200-5-73	73.0	50.00	133.0	14.0	2.60
RL-8200-5-2000	2000.0	1070.00	1932.0	0.4	0.71
RL-8200-6-2.8	2.8	1.68	4.6	136.0	13.90
RL-8200-6-4.2	4.2	2.50	6.6	72.0	11.40
RL-8200-7-6.5	6.5	3.50	7.2	46.0	12.40
RL-8200-7-8.4	8.4	4.70	8.5	23.0	10.40
RL-8200-8-11	11.0	6.50	8.2	20.0	14.00
RL-8200-8-18	18.0	10.00	12.5	9.0	10.00

PART NUMBER	PART WEIGHT
RL-8200-1	0.8g (0.03oz)
RL-8200-2	0.8g (0.03oz)
RL-8200-3	3.0g (0.10oz)
RL-8200-4	3.8g (0.12oz)
RL-8200-5	4.9g (0.16oz)
RL-8200-6	5.9g (0.19oz)
RL-8200-7	6.9g (0.22oz)
RL-8200-8	11.8g (0.38oz)

NOTES:

1. INDUCTANCE TESTED AT 100 kHz, 0.1 Vrms
2. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
3. MEETS UL 94V-0 RATING



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

