



RL-6200

SHIELDED 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. 490

FEATURES & APPLICATIONS

- Magnetically shielded construction
- Inductance from 10 μ H to 1500 μ H
- Operating currents from 0.30 A to 2.50 A
- Operating frequencies from DC to 1 MHz
- Typical applications include: switching power supplies and RFI/EMC filtering

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

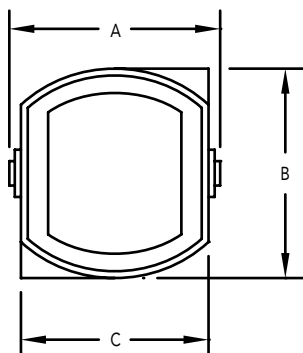
MECHANICAL DIMENSIONS

U.S. Standard (mm)

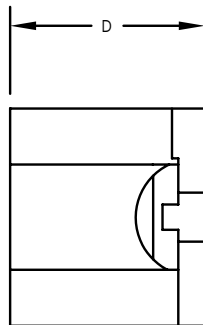
PART NUMBER	A (MAX.)	B (MAX.)	C (TYP.)	D (MAX.)	E (REF.)	F (REF.)	G (REF.)
RL-6200-1	0.413 (10.50)	0.327 (8.30)	0.275 (7.00)	0.236 (6.00)	0.154 (3.90)	0.110 (2.80)	0.110 (2.80)
RL-6200-2	0.492 (12.50)	0.409 (10.40)	0.354 (9.00)	0.236 (6.00)	0.154 (3.90)	0.185 (4.70)	0.110 (2.80)
RL-6200-3	0.590 (15.00)	0.512 (13.00)	0.457 (11.60)	0.236 (6.00)	0.154 (3.90)	0.287 (7.30)	0.110 (2.80)

PART NUMBER	PART WEIGHT
RL-6200-1	0.83g (0.03oz)
RL-6200-2	1.50g (0.05oz)
RL-6200-3	2.40g (0.09oz)

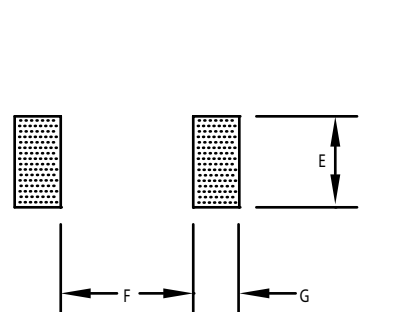
TOP VIEW



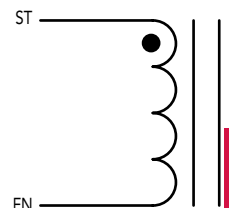
SIDE VIEW



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-6200-1, RL-6200-2, RL-6200-3

Renco Part No. RL-6200-1	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-6200-1-10	10.0	0.05	1.60	1.60
RL-6200-1-12	12.0	0.06	1.50	1.50
RL-6200-1-15	15.0	0.07	1.40	1.40
RL-6200-1-18	18.0	0.08	1.30	1.30
RL-6200-1-22	22.0	0.10	1.10	1.10
RL-6200-1-27	27.0	0.10	1.00	1.00
RL-6200-1-33	33.0	0.15	0.92	0.92
RL-6200-1-39	39.0	0.15	0.84	0.84
RL-6200-1-47	47.0	0.20	0.76	0.76
RL-6200-1-56	56.0	0.25	0.68	0.68
RL-6200-1-68	68.0	0.30	0.63	0.63
RL-6200-1-82	82.0	0.30	0.58	0.58
RL-6200-1-100	100.0	0.40	0.50	0.50
RL-6200-1-120	120.0	0.45	0.46	0.46
RL-6200-1-150	150.0	0.55	0.40	0.40
RL-6200-1-180	180.0	0.70	0.38	0.38
RL-6200-1-220	220.0	0.75	0.36	0.36

Renco Part No. RL-6200-2	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-6200-2-10	10.0	0.04	2.40	2.40
RL-6200-2-12	12.0	0.05	2.30	2.30
RL-6200-2-15	15.0	0.06	2.10	2.10
RL-6200-2-18	18.0	0.06	1.90	1.90
RL-6200-2-22	22.0	0.07	1.70	1.70
RL-6200-2-27	27.0	0.08	1.60	1.60
RL-6200-2-33	33.0	0.10	1.40	1.40
RL-6200-2-39	39.0	0.15	1.30	1.30
RL-6200-2-47	47.0	0.15	1.20	1.20
RL-6200-2-56	56.0	0.20	1.10	1.10
RL-6200-2-68	68.0	0.25	0.97	0.97
RL-6200-2-82	82.0	0.25	0.88	0.88
RL-6200-2-100	100.0	0.30	0.80	0.80
RL-6200-2-120	120.0	0.35	0.73	0.73
RL-6200-2-150	150.0	0.40	0.65	0.65
RL-6200-2-180	180.0	0.55	0.60	0.60
RL-6200-2-220	220.0	0.60	0.54	0.54
RL-6200-2-270	270.0	0.80	0.49	0.49
RL-6200-2-330	330.0	0.90	0.44	0.44
RL-6200-2-390	390.0	1.00	0.41	0.41
RL-6200-2-470	470.0	1.30	0.37	0.37

Renco Part No. RL-6200-3	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-6200-3-10	10.0	0.05	2.50	2.50
RL-6200-3-12	12.0	0.05	2.40	2.40
RL-6200-3-15	15.0	0.06	2.30	2.30
RL-6200-3-18	18.0	0.07	2.20	2.20
RL-6200-3-22	22.0	0.08	2.10	2.10
RL-6200-3-27	27.0	0.10	2.00	2.00
RL-6200-3-33	33.0	0.10	1.90	1.90
RL-6200-3-39	39.0	0.12	1.80	1.80
RL-6200-3-47	47.0	0.14	1.60	1.60
RL-6200-3-56	56.0	0.15	1.40	1.40
RL-6200-3-68	68.0	0.18	1.30	1.30
RL-6200-3-82	82.0	0.20	1.20	1.20
RL-6200-3-100	100.0	0.25	1.10	1.10
RL-6200-3-120	120.0	0.30	0.97	0.97
RL-6200-3-150	150.0	0.35	0.86	0.86
RL-6200-3-180	180.0	0.40	0.84	0.84
RL-6200-3-220	220.0	0.50	0.72	0.72
RL-6200-3-270	270.0	0.60	0.65	0.65
RL-6200-3-330	330.0	0.70	0.61	0.61
RL-6200-3-390	390.0	0.80	0.58	0.58
RL-6200-3-470	470.0	0.90	0.50	0.50
RL-6200-3-560	560.0	1.10	0.48	0.48
RL-6200-3-680	680.0	1.20	0.43	0.43
RL-6200-3-820	820.0	1.50	0.38	0.38
RL-6200-3-1000	1000.0	2.00	0.35	0.35
RL-6200-3-1200	1200.0	2.20	0.32	0.32
RL-6200-3-1500	1500.0	2.50	0.30	0.30

NOTES:

1. INDUCTANCE \pm 20% WITH NO D.C. TESTED AT 1 kHz, 1.0 Vrms
2. I_{rms} - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
3. I_{sat} - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 5%
4. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C

