

RL-1608-S

SHIELDED SMD POWER INDUCTORS



DESCRIPTION

- Shielded Power Inductors

ENVIRONMENTAL DATA

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

PACKAGING INFORMATION

- Packaging information: pg. 489

FEATURES & APPLICATIONS

- Small package with a footprint of 0.26" X 0.175"
- Low-cost, high-energy storage and low resistance make it ideal for communications, computer and converter applications
- Specifically designed with a flat top for reliable pick and place operations
- Available in 25 values with inductance ratings from 1.0 μ H to 10 mH and currents up to 3 A

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

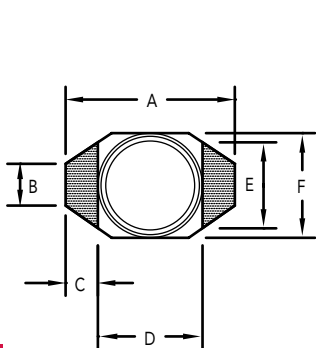
MECHANICAL DIMENSIONS

U.S. Standard (mm)

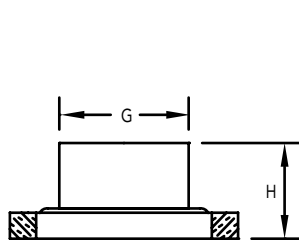
PART NUMBER	A (MAX.)	B	C	D	E	F (MAX.)
RL-1608-S	0.260 (6.60)	0.050 (1.27)	0.040 (1.02)	0.170 (4.32)	0.120 (3.05)	0.175 (4.45)

PART NUMBER	PART WEIGHT	G	H (MAX.)	I (REF.)	J (REF.)	K (REF.)	L (REF.)
RL-1608-S	0.35g (0.012oz)	0.160 (4.06)	0.115 (2.92)	0.140 (3.56)	0.160 (4.06)	0.270 (6.86)	0.055 (1.40)

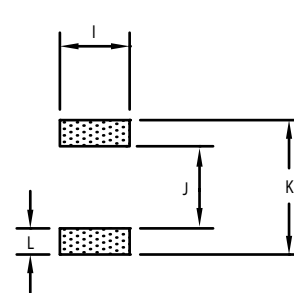
TOP VIEW



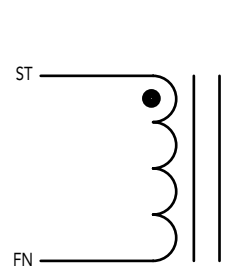
SIDE VIEW



RECOMMENDED LAND PATTERN



SCHEMATIC



RL-1608-S

Renco Part No. RL-1608-S	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)	Q Min.	Q Test Frequency (Hz)	SRF Typ. (MHz)
RL-1608-S-1.0	1.0	0.040	1.400	3.00	30	200 K	250.0
RL-1608-S-1.5	1.5	0.045	0.930	2.80	30	200 K	125.0
RL-1608-S-2.2	2.2	0.050	0.920	1.80	40	200 K	120.0
RL-1608-S-3.3	3.3	0.055	0.750	1.60	40	200 K	120.0
RL-1608-S-4.7	4.7	0.060	0.580	1.40	40	200 K	105.0
RL-1608-S-6.8	6.8	0.065	0.580	1.20	40	200 K	90.0
RL-1608-S-10	10.0	0.075	0.370	1.00	40	200 K	38.0
RL-1608-S-15	15.0	0.090	0.310	0.80	40	100 K	33.0
RL-1608-S-22	22.0	0.110	0.300	0.70	40	100 K	25.0
RL-1608-S-33	33.0	0.190	0.300	0.60	40	100 K	20.0
RL-1608-S-47	47.0	0.300	0.240	0.50	40	100 K	20.0
RL-1608-S-68	68.0	0.370	0.170	0.40	40	100 K	15.0
RL-1608-S-100	100.0	0.480	0.130	0.30	40	100 K	10.0
RL-1608-S-150	150.0	0.590	0.100	0.26	40	100 K	9.0
RL-1608-S-220	220.0	0.770	0.100	0.22	40	100 K	6.0
RL-1608-S-330	330.0	1.400	0.070	0.20	40	100 K	5.0
RL-1608-S-470	470.0	1.800	0.060	0.19	40	100 K	4.0
RL-1608-S-680	680.0	2.200	0.055	0.18	40	100 K	3.0
RL-1608-S-1000	1000.0	3.400	0.045	0.15	40	100 K	2.0
RL-1608-S-1500	1500.0	4.200	0.035	0.12	50	100 K	2.0
RL-1608-S-2200	2200.0	8.500	0.028	0.10	50	100 K	2.0
RL-1608-S-3300	3300.0	11.000	0.024	0.08	50	100 K	1.0
RL-1608-S-4700	4700.0	13.900	0.021	0.06	50	100 K	1.0
RL-1608-S-6800	6800.0	25.000	0.019	0.04	50	100 K	1.0
RL-1608-S-10000	10000.0	32.800	0.017	0.02	50	100 K	0.8

NOTES:

1. INDUCTANCE \pm 20% TESTED AT 100 kHz, 0.1 Vrms
2. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
3. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 30%
4. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C



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