



RL-4012

LOW PROFILE SMD POWER INDUCTOR

DESCRIPTION

- Shielded 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. 504

FEATURES & APPLICATIONS

- Surface mount power inductors in a low profile
- Excellent as a power inductor used in notebook computers, smartphones, cell phones, step-up or step-down converters, and Flash memory
- Available in 11 values with inductance ratings from 1.0 μ H to 47 μ H and currents up to 2.30 A

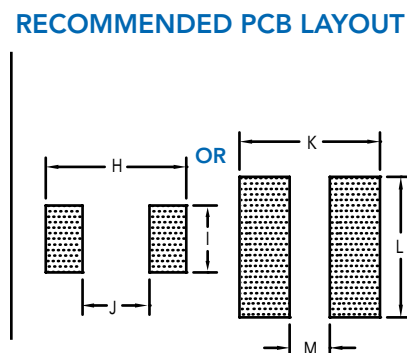
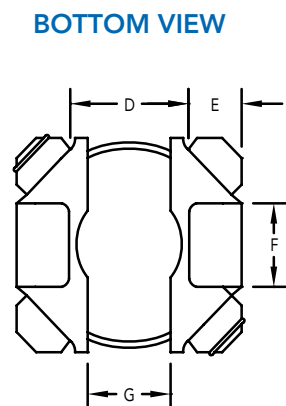
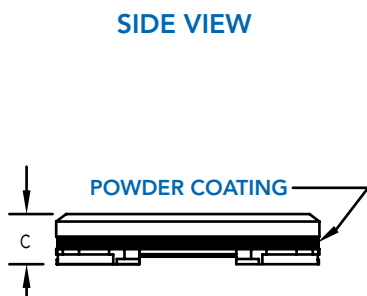
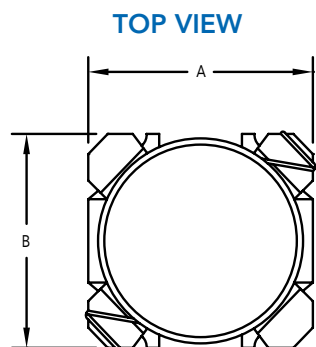
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

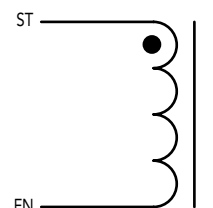
U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D (TYP.)	E (TYP.)	F (TYP.)	G (TYP.)
RL-4012	0.17 (4.20)	0.16 (4.10)	0.050 (1.20)	0.080 (2.10)	0.035 (0.90)	0.060 (1.50)	0.043 (1.10)

PART NUMBER	PART WEIGHT	H (REF.)	I (REF.)	J (REF.)	K (REF.)	L (REF.)	M (REF.)
RL-4012	0.9g (0.03oz)	0.170 (4.40)	0.080 (2.00)	0.080 (2.00)	0.165 (4.20)	0.170 (4.30)	0.039 (1.00)



SCHEMATIC



RENCO ELECTRONICS INC.

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RL-4012

Renco Part No. RL-4012	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-4012-1R0N	1.0 $\pm$ 30%	0.042	2.30	1.90
RL-4012-1R5N	1.5 $\pm$ 30%	0.057	1.90	1.70
RL-4012-2R2N	2.2 $\pm$ 30%	0.086	1.50	1.55
RL-4012-3R3N	3.3 $\pm$ 30%	0.100	1.30	1.40
RL-4012-4R7M	4.7 $\pm$ 20%	0.130	1.10	1.25
RL-4012-6R8M	6.8 $\pm$ 20%	0.180	0.95	1.05
RL-4012-100M	10.0 $\pm$ 20%	0.280	0.75	0.80
RL-4012-150M	15.0 $\pm$ 20%	0.390	0.65	0.70
RL-4012-220M	22.0 $\pm$ 20%	0.530	0.55	0.60
RL-4012-330M	33.0 $\pm$ 20%	0.850	0.45	0.40
RL-4012-470M	47.0 $\pm$ 20%	1.140	0.38	0.35

NOTES:

1. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 30%
2. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. RESISTANCE TO SOLDER HEAT: 260°C FOR 10 SECONDS
5. INDUCTANCE TESTED AT 100 kHz, 0.1 Vrms



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