



RL-3010

LOW PROFILE SMD POWER INDUCTOR

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. 504

FEATURES & APPLICATIONS

- Low profile surface mount inductor
- Excellent as a power inductor used in notebook computers, smartphones, cell phones, step-up or step-down converters, and Flash memory
- Available in 10 values with inductance ratings from 1.2 μ H to 22 μ H and currents up to 1.50 A

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

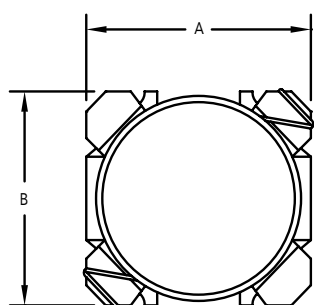
MECHANICAL DIMENSIONS

U.S. Standard (mm)

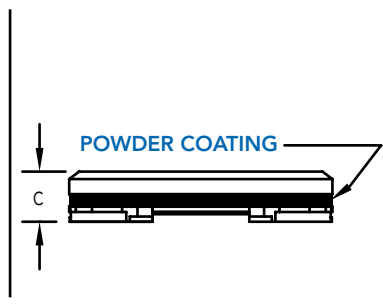
PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D (TYP.)	E (TYP.)	F (TYP.)	G (TYP.)
RL-3010	0.13 (3.20)	0.12 (3.10)	0.04 (1.00)	0.06 (1.50)	0.03 (0.70)	0.05 (1.20)	0.03 (0.70)

PART NUMBER	PART WEIGHT	H (REF.)	I (REF.)	J (REF.)	K (REF.)	L (REF.)	M (REF.)
RL-3010	0.8g (0.02oz)	0.13 (3.40)	0.06 (1.60)	0.06 (1.40)	0.13 (3.20)	0.13 (3.30)	0.02 (0.60)

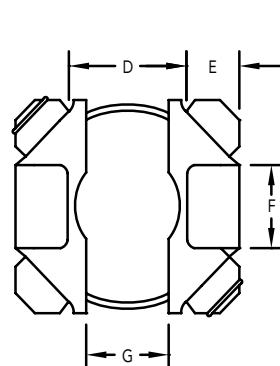
TOP VIEW



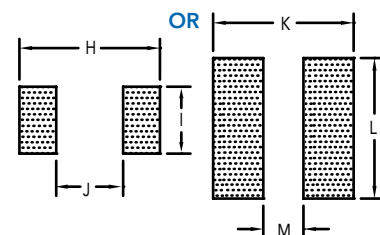
SIDE VIEW



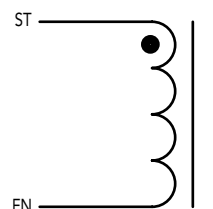
BOTTOM VIEW



RECOMMENDED PCB LAYOUT



SCHEMATIC



RECO ELECTRONICS INC.

595 International Place, Rockledge, FL 32955-4200 USA • www.rencousa.com • ISO 9001 Certified
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RL-3010

Renco Part No. RL-3010	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-3010-1R0N	1.0 $\pm$ 30%	0.064	1.50	1.70
RL-3010-1R2N	1.2 $\pm$ 30%	0.072	1.30	1.60
RL-3010-1R5N	1.5 $\pm$ 30%	0.086	1.10	1.45
RL-3010-2R2N	2.2 $\pm$ 30%	0.120	0.95	1.25
RL-3010-3R3N	3.3 $\pm$ 30%	0.170	0.80	1.00
RL-3010-3R9N	3.9 $\pm$ 30%	0.200	0.70	0.90
RL-3010-4R7M	4.7 $\pm$ 20%	0.250	0.65	0.85
RL-3010-5R6M	5.6 $\pm$ 20%	0.300	0.60	0.78
RL-3010-6R8M	6.8 $\pm$ 20%	0.350	0.55	0.70
RL-3010-8R2M	8.2 $\pm$ 20%	0.400	0.50	0.65
RL-3010-100M	10.0 $\pm$ 20%	0.490	0.45	0.60
RL-3010-150M	15.0 $\pm$ 20%	0.680	0.38	0.50
RL-3010-220M	22.0 $\pm$ 20%	1.000	0.33	0.40

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. RESISTANCE TO SOLDER HEAT: 260°C FOR 10 SECONDS
4. INDUCTANCE TESTED AT 100 kHz, 0.1 Vrms



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