



RL-3014

SHIELDED LOW PROFILE 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

- Designed for reliable pick and place operations
- Excellent as a power inductor used in notebook computers, smartphones, cell phones, step-up or step-down converters, and Flash memory
- Available in 16 values with inductance ratings from 1.0 μ H to 27 μ H and currents up to 2.30 A

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

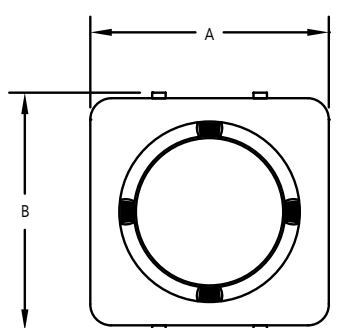
MECHANICAL DIMENSIONS

U.S. Standard (mm)

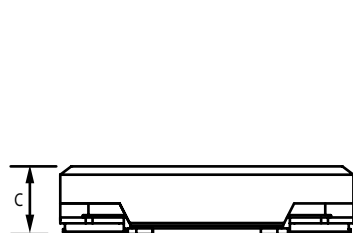
PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D (TYP.)	E (TYP.)	F (TYP.)	G (TYP.)
RL-3014	0.13 (3.20)	0.13 (3.30)	0.06 (1.50)	0.06 (1.50)	0.03 (0.70)	0.05 (1.20)	0.03 (0.70)

PART NUMBER	PART WEIGHT	H (REF.)	I (REF.)	J (REF.)	K (REF.)	L (REF.)	M (REF.)
RL-3014	0.9g (0.03oz)	0.13 (3.40)	0.06 (1.60)	0.06 (1.40)	0.13 (3.20)	0.13 (3.30)	0.02 (0.60)

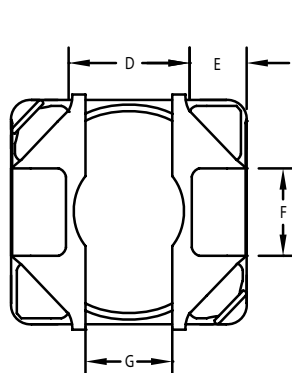
TOP VIEW



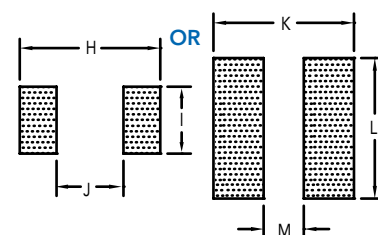
SIDE VIEW



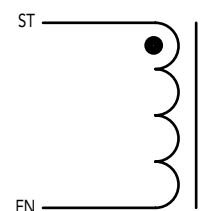
BOTTOM VIEW



RECOMMENDED PCB LAYOUT



SCHEMATIC



RECO ELECTRONICS INC.

595 International Place, Rockledge, FL 32955-4200 USA • www.rencousa.com • ISO 9001 Certified
Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600



RL-3014

Renco Part No. RL-3014	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-3014-1R0N	1.0 $\pm$ 30%	0.052	2.30	1.84
RL-3014-1R5N	1.5 $\pm$ 30%	0.070	2.00	1.66
RL-3014-1R8N	1.8 $\pm$ 30%	0.080	1.70	1.56
RL-3014-2R2N	2.2 $\pm$ 30%	0.090	1.50	1.40
RL-3014-2R7N	2.7 $\pm$ 30%	0.100	1.40	1.30
RL-3014-3R3N	3.3 $\pm$ 30%	0.110	1.30	1.25
RL-3014-3R9N	3.9 $\pm$ 30%	0.120	1.20	1.20
RL-3014-4R7M	4.7 $\pm$ 20%	0.160	1.00	1.10
RL-3014-5R6M	5.6 $\pm$ 20%	0.170	0.90	1.05
RL-3014-6R8M	6.8 $\pm$ 20%	0.230	0.85	1.00
RL-3014-8R2M	8.2 $\pm$ 20%	0.280	0.80	0.95
RL-3014-100M	10.0 $\pm$ 20%	0.360	0.75	0.85
RL-3014-120M	12.0 $\pm$ 20%	0.420	0.62	0.77
RL-3014-150M	15.0 $\pm$ 20%	0.500	0.58	0.67
RL-3014-180M	18.0 $\pm$ 20%	0.590	0.54	0.56
RL-3014-220M	22.0 $\pm$ 20%	0.720	0.48	0.50
RL-3014-270M	27.0 $\pm$ 20%	0.820	0.40	0.45

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. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
5. INDUCTANCE TESTED AT 100 kHz, 0.1 Vrms



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