



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

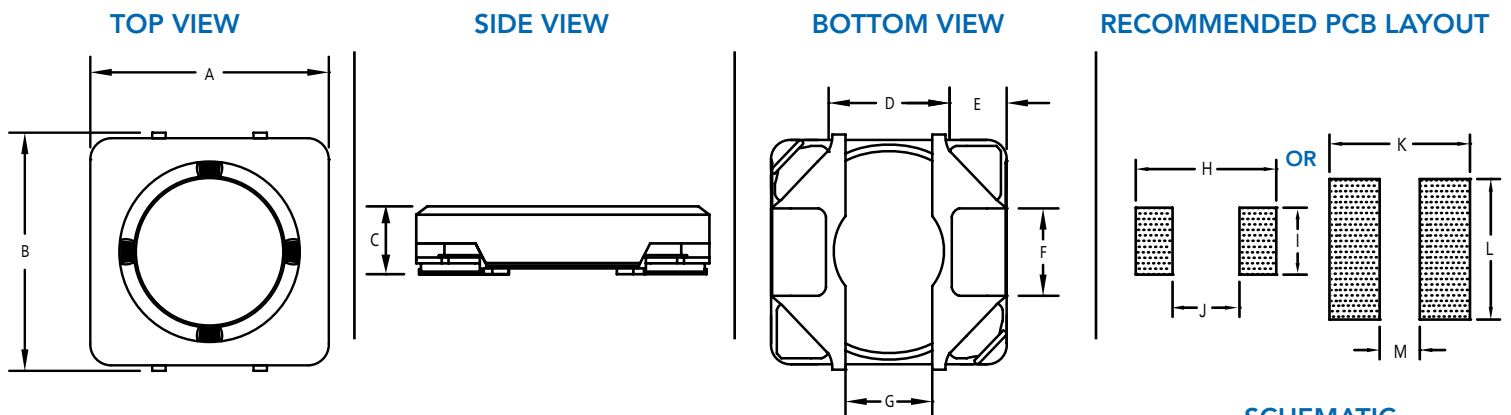
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

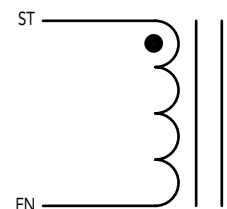
U.S. Standard (mm)

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)



SCHEMATIC



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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