



RL-3013

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

- Great for applications where space is at a minimum
- Excellent as a power inductor used in notebook computers, smartphones, cell phones, step-up or step-down converters, and Flash memory
- Available in 14 values with inductance ratings from 1.0 μ H to 22 μ H and currents up to 1.50 A

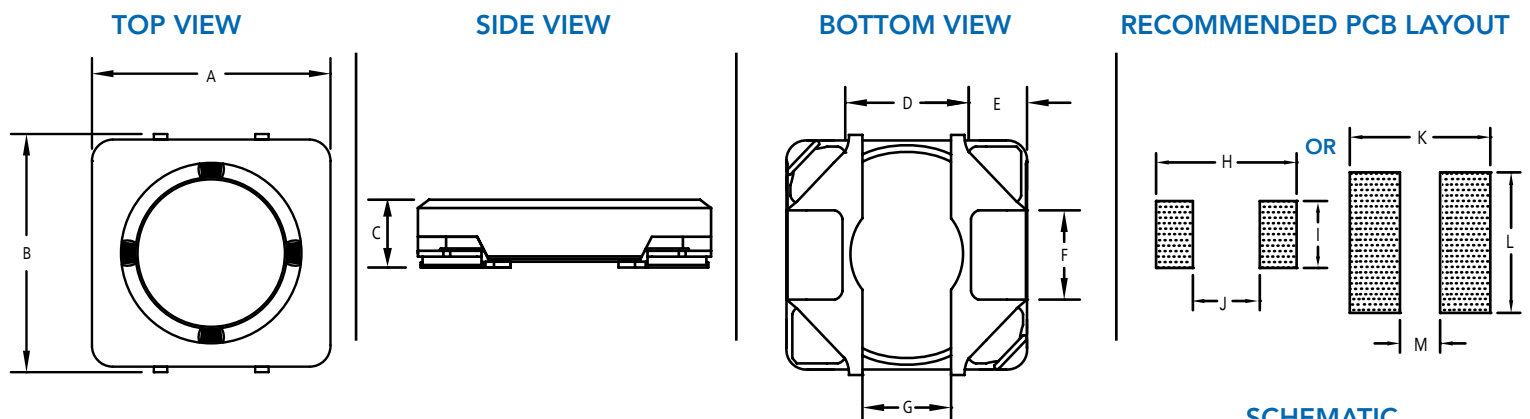
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

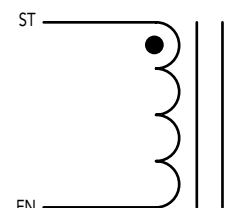
U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D (TYP.)	E (TYP.)	F (TYP.)	G (TYP.)
RL-3013	0.125 (3.20)	0.125 (3.20)	0.050 (1.20)	0.059 (1.50)	0.030 (0.70)	0.050 (1.20)	0.030 (0.70)

PART NUMBER	PART WEIGHT	H (REF.)	I (REF.)	J (REF.)	K (REF.)	L (REF.)	M (REF.)
RL-3013	0.9g (0.03oz)	0.133 (3.40)	0.062 (1.60)	0.055 (1.40)	0.125 (3.20)	0.129 (3.30)	0.020 (0.60)



SCHEMATIC



RENCO 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-3013

Renco Part No. RL-3013	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-3013-1R0N	1.0 $\pm$ 30%	0.055	1.50	1.80
RL-3013-1R2N	1.2 $\pm$ 30%	0.063	1.40	1.65
RL-3013-1R5N	1.5 $\pm$ 30%	0.075	1.30	1.50
RL-3013-2R2N	2.2 $\pm$ 30%	0.110	1.00	1.30
RL-3013-3R3N	3.3 $\pm$ 30%	0.150	0.87	1.10
RL-3013-3R9N	3.9 $\pm$ 30%	0.180	0.82	1.00
RL-3013-4R7M	4.7 $\pm$ 20%	0.210	0.75	0.90
RL-3013-5R6M	5.6 $\pm$ 20%	0.270	0.65	0.80
RL-3013-6R8M	6.8 $\pm$ 20%	0.330	0.60	0.70
RL-3013-8R2M	8.2 $\pm$ 20%	0.380	0.55	0.65
RL-3013-100M	10.0 $\pm$ 20%	0.410	0.50	0.60
RL-3013-120M	12.0 $\pm$ 20%	0.550	0.45	0.55
RL-3013-150M	15.0 $\pm$ 20%	0.680	0.40	0.45
RL-3013-220M	22.0 $\pm$ 20%	0.950	0.35	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. 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



RENCO 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

