



RL-9713

SHIELDED 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. 492

FEATURES & APPLICATIONS

- Low profile for applications when space is at a premium
- Excellent as a power inductor used in notebook computers and other electronic equipment requiring compact and low-loss inductors
- Available in 11 values with inductance ratings from 1.0 μ H to 47 μ H and currents up to 2.50 A

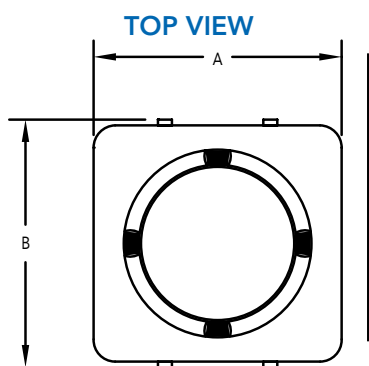
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

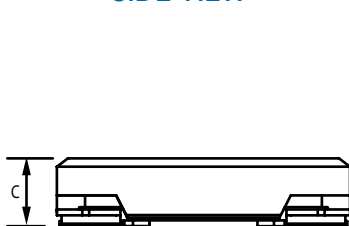
U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D (TYP.)	E (TYP.)	F (TYP.)	G (TYP.)
RL-9713	0.204 (5.20)	0.208 (5.30)	0.050 (1.20)	0.110 (2.70)	0.040 (1.10)	0.080 (2.00)	0.059 (1.50)

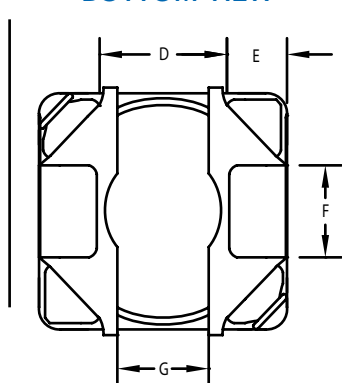
PART NUMBER	PART WEIGHT	H (REF.)	I (REF.)	J (REF.)	K (REF.)	L (REF.)	M (REF.)
RL-9713	1.0g (0.04oz)	0.212 (5.40)	0.094 (2.40)	0.098 (2.50)	0.212 (5.40)	0.212 (5.40)	0.055 (1.40)



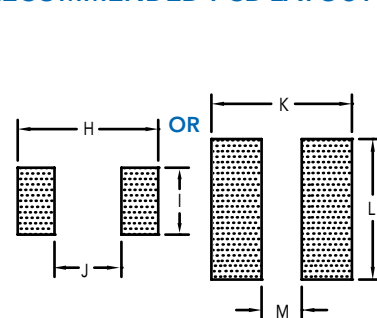
SIDE VIEW



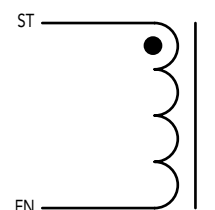
BOTTOM VIEW



RECOMMENDED PCB LAYOUT



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



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Renco Part No. RL-5013	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-9713-1R0N	1.0 $\pm$ 30%	0.045	2.50	2.30
RL-9713-1R5N	1.5 $\pm$ 30%	0.052	2.10	2.00
RL-9713-2R2N	2.2 $\pm$ 30%	0.071	1.70	1.70
RL-9713-3R3N	3.3 $\pm$ 30%	0.080	1.40	1.50
RL-9713-4R7M	4.7 $\pm$ 20%	0.120	1.20	1.30
RL-9713-6R8M	6.8 $\pm$ 20%	0.150	1.00	1.10
RL-9713-100M	10.0 $\pm$ 20%	0.220	0.75	1.00
RL-9713-150M	15.0 $\pm$ 20%	0.320	0.65	0.85
RL-9713-220M	22.0 $\pm$ 20%	0.430	0.53	0.70
RL-9713-330M	33.0 $\pm$ 20%	0.680	0.42	0.50
RL-9713-470M	47.0 $\pm$ 20%	1.050	0.30	0.38

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, 0.1Vrms



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