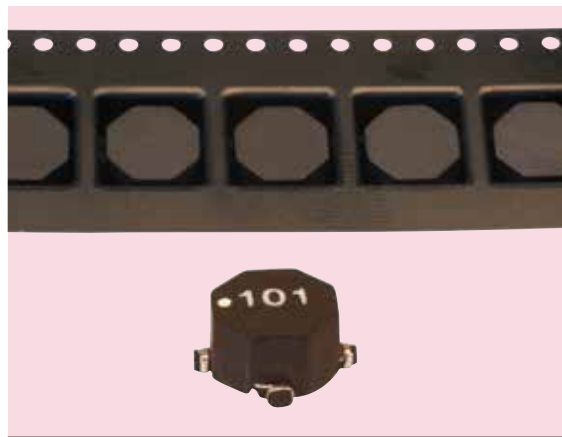




RL-9625-1

SHIELDED SMD POWER INDUCTOR

DESCRIPTION

- Shielded 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. 507

FEATURES & APPLICATIONS

- Magnetically shielded surface mount inductor with high current rating
- Low resistance to keep power loss at a minimum
- Excellent for power line DC-DC conversion applications used in notebook computers and other electronic equipment
- Can use in series or in parallel

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

MECHANICAL DIMENSIONS

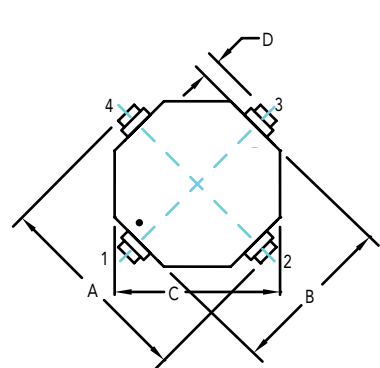
U.S. Standard (mm)

PART NUMBER	A (TYP.)	B (TYP.)	C (TYP.)	D (TYP.)	E (MAX.)	F (TYP.)
RL-9625-1	0.450 (11.43)	0.350 (8.89)	0.350 (8.89)	0.030 (0.76)	0.235 (5.97)	0.392 (9.96)

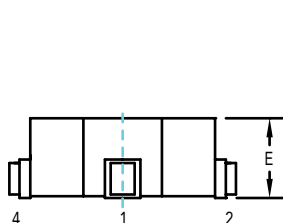
PART NUMBER	PART WEIGHT
RL-9625-1	1.0g (0.04oz)

G (TYP.)	H (TYP.)	I (TYP.)
0.421 (10.70)	0.145 (3.69)	0.120 (3.05)

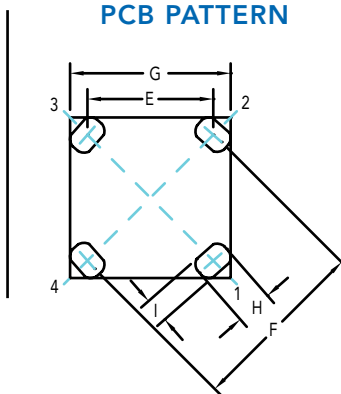
TOP VIEW



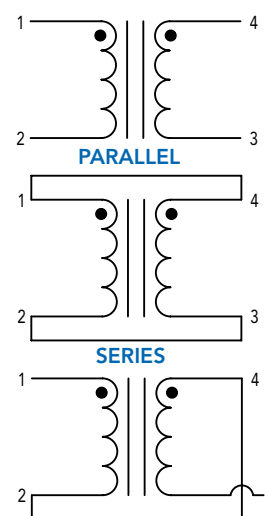
FRONT VIEW



RECOMMENDED PCB PATTERN



SCHEMATIC



RL-9625-1

Renco Part No. RL-9625-1	Inductance (μ H)	Inductance @ I _{rms} Min. (μ H)	DCR Max. (Ohms)	I _{rms} (A)	Inductance (μ H)	Inductance @ I _{rms} Min. (μ H)	DCR Max. (Ohms)	I _{rms} (A)
	PARALLEL				SERIES			
RL-9625-1-R54M	0.54 $\pm$ 20%	0.420	0.0060	5.90	2.18 $\pm$ 20%	1.69	0.024	2.95
RL-9625-1-R85M	0.85 $\pm$ 20%	0.640	0.0070	5.40	3.40 $\pm$ 20%	2.33	0.029	2.70
RL-9625-1-1R2M	1.22 $\pm$ 20%	0.890	0.0080	5.00	4.90 $\pm$ 20%	3.57	0.033	2.30
RL-9625-1-2R2M	2.18 $\pm$ 20%	1.56	0.0140	3.90	8.70 $\pm$ 20%	6.26	0.055	1.95
RL-9625-1-4R9M	4.90 $\pm$ 20%	3.57	0.0320	2.50	19.58 $\pm$ 20%	14.26	0.128	1.25
RL-9625-1-7R6M	7.65 $\pm$ 20%	5.31	0.0400	2.30	30.60 $\pm$ 20%	21.23	0.158	1.15
RL-9625-1-100M	9.83 $\pm$ 20%	6.73	0.0450	2.10	39.30 $\pm$ 20%	26.92	0.179	1.05
RL-9625-1-150M	14.99 $\pm$ 20%	10.51	0.0850	1.60	59.98 $\pm$ 20%	42.02	0.339	0.800
RL-9625-1-200M	19.58 $\pm$ 20%	13.37	0.0970	1.50	78.34 $\pm$ 20%	53.48	0.387	0.750
RL-9625-1-250M	24.79 $\pm$ 20%	16.60	0.1090	1.48	99.14 $\pm$ 20%	66.38	0.436	0.700
RL-9625-1-330M	32.67 $\pm$ 20%	21.29	0.1260	1.30	130.70 $\pm$ 20%	85.17	0.503	0.650
RL-9625-1-500M	49.10 $\pm$ 20%	35.31	0.3050	0.820	196.38 $\pm$ 20%	141.24	1.221	0.410
RL-9625-1-680M	68.85 $\pm$ 20%	47.93	0.3620	0.760	275.40 $\pm$ 20%	191.71	1.445	0.380
RL-9625-1-101M	99.14 $\pm$ 20%	69.56	0.5410	0.620	396.58 $\pm$ 20%	278.22	2.162	0.310

NOTES:

1. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
2. TURNS RATIO 1:1
3. I_{rms} - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
4. INDUCTANCE TESTED AT 100 kHz, 0.25V_{rms}
5. HIPOT TEST: 500V AC @ 60Hz 1mA MAX FOR 1 SECOND



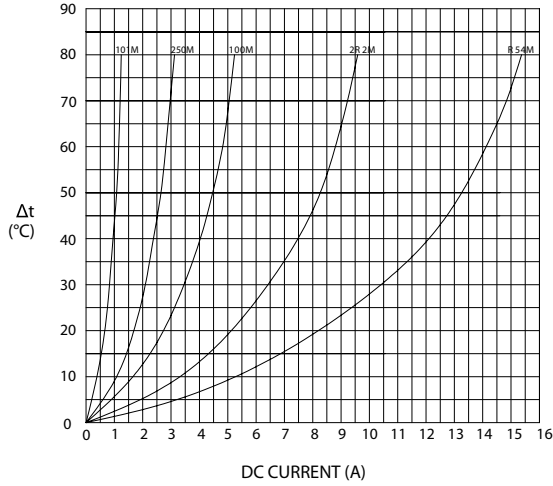
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Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600

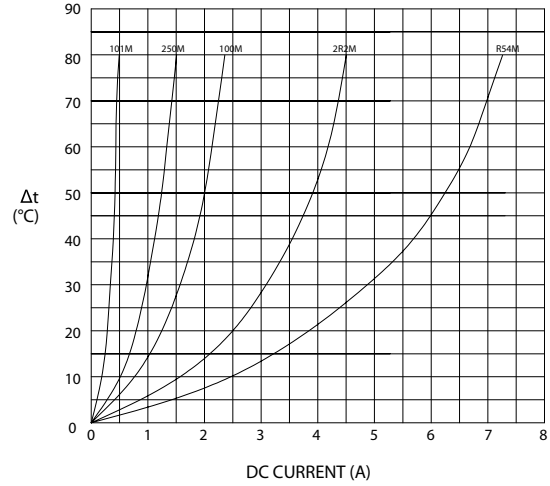


RL-9625-1

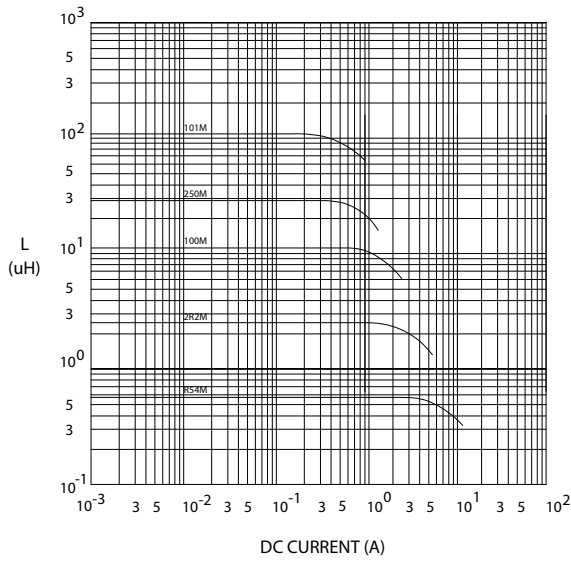
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE (PARA)



@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE (SER)



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE (PARA)



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE (SER)

