



# RL-9720

## LOW PROFILE 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. 507

### FEATURES & APPLICATIONS

- Low profile surface mount inductors in a small package size
- Excellent as a power inductor used in notebook computers and other electronic equipment requiring compact and low-loss inductors
- Available in 13 values with inductance ratings from 1.0  $\mu$ H to 47  $\mu$ H and currents up to 5.60 A

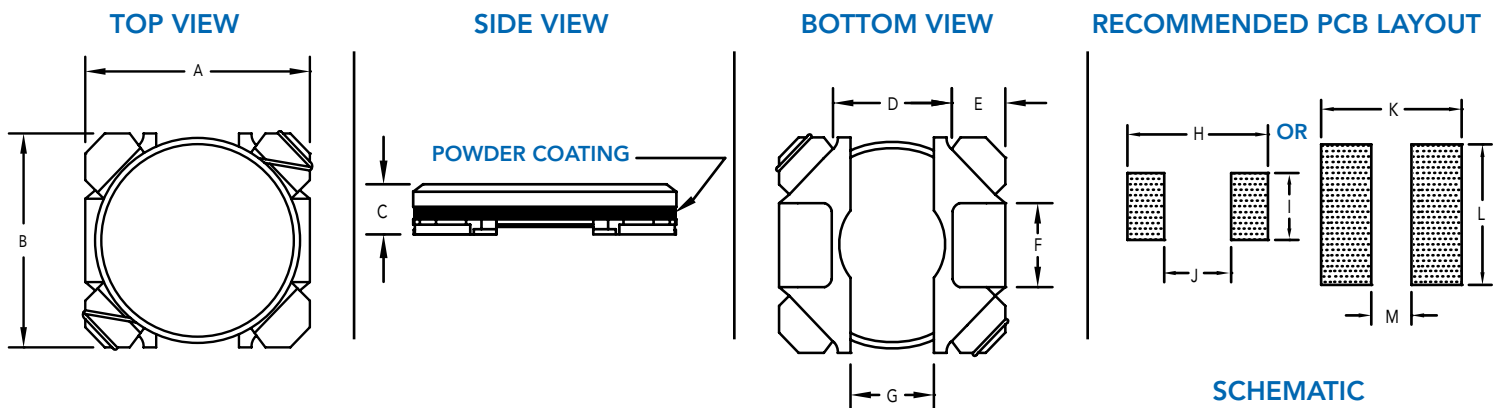
Verify operation with sample in actual circuit. Order samples at [www.rencousa.com](http://www.rencousa.com).

### MECHANICAL DIMENSIONS

U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D (TYP.)	E (TYP.)	F (TYP.)	G (TYP.)
RL-9720	0.204 (5.20)	0.200 (5.10)	0.080 (2.00)	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-9720	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)



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Renco Part No. RL-9720	Inductance ( $\mu$ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-9720-1R0N	1.0 $\pm$ 30%	0.048	5.60	2.10
RL-9720-1R2N	1.2 $\pm$ 30%	0.058	4.70	1.95
RL-9720-1R5N	1.5 $\pm$ 30%	0.066	4.20	1.80
RL-9720-2R2N	2.2 $\pm$ 30%	0.077	3.40	1.70
RL-9720-3R3N	3.3 $\pm$ 30%	0.089	2.80	1.65
RL-9720-3R9N	3.9 $\pm$ 30%	0.097	2.60	1.60
RL-9720-4R7M	4.7 $\pm$ 20%	0.110	2.40	1.50
RL-9720-6R8M	6.8 $\pm$ 20%	0.140	2.20	1.35
RL-9720-100M	10.0 $\pm$ 20%	0.170	2.00	1.20
RL-9720-150M	15.0 $\pm$ 20%	0.230	1.50	1.05
RL-9720-220M	22.0 $\pm$ 20%	0.350	1.20	0.85
RL-9720-330M	33.0 $\pm$ 20%	0.480	1.00	0.70
RL-9720-470M	47.0 $\pm$ 20%	0.670	0.90	0.55

#### 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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