



RL-9712

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

- Surface mount power inductors for easy-to-use pick and place operations
- Excellent as a power inductor used in notebook computers and other electronic equipment requiring compact and low-loss inductors
- Available in 5 values with inductance ratings from 2.2 μH to 10 μH and currents up to 1.90 A

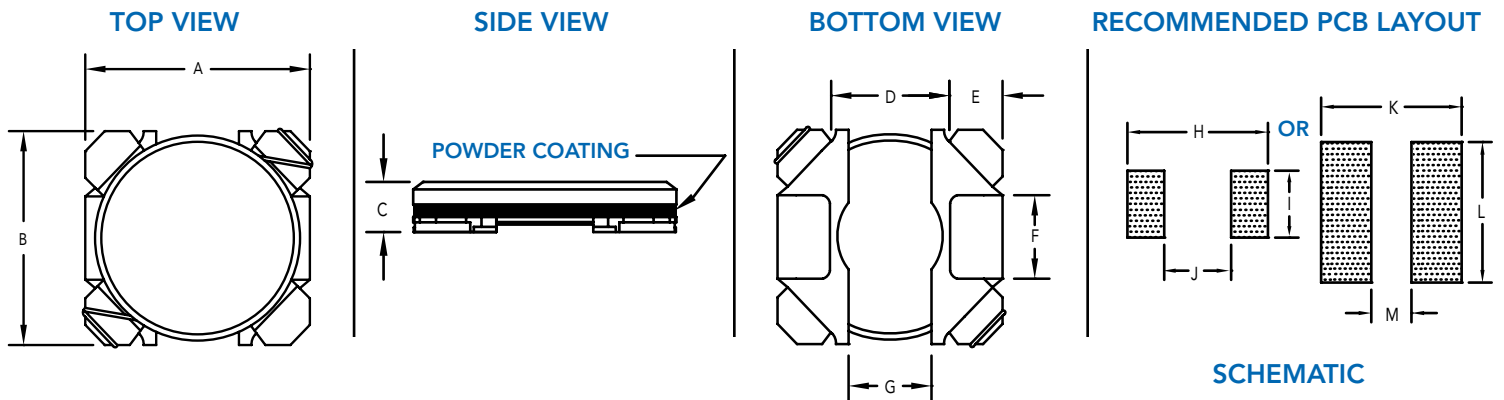
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D (TYP.)	E (TYP.)	F (TYP.)	G (TYP.)
RL-9712	0.204 (5.20)	0.200 (5.10)	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-9712	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-9712	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-9712-1R0N	1.0 \pm 30%	0.039	2.50	2.20
RL-9712-1R5N	1.5 \pm 30%	0.049	2.10	2.05
RL-9712-2R2N	2.2 \pm 30%	0.072	1.90	1.80
RL-9712-3R3N	3.3 \pm 30%	0.083	1.60	1.65
RL-9712-4R7M	4.7 \pm 20%	0.130	1.40	1.40
RL-9712-5R6M	5.6 \pm 20%	0.140	1.20	1.35
RL-9712-6R8M	6.8 \pm 20%	0.160	1.10	1.25
RL-9712-100M	10.0 \pm 20%	0.250	0.90	1.05
RL-9712-150M	15.0 \pm 20%	0.280	0.70	0.95

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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