



RL-5022

SMD POWER INDUCTORS

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. 489

FEATURES & APPLICATIONS

- Surface mount power inductors in a small 0.600" X 0.730" package and exceptionally low DC resistance
- Designed with a flat top for reliable pick and place operations
- Available in 17 values with inductance ratings from 1.0 μ H to 1.0 mH and currents up to 8.6 A

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

MECHANICAL DIMENSIONS

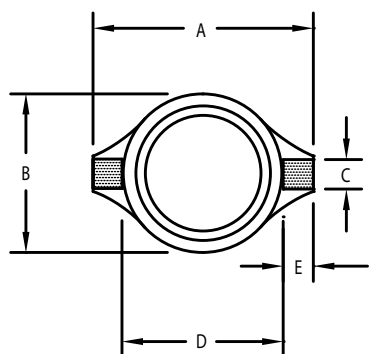
U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C	D	E	F
RL-5022	0.730 (18.54)	0.600 (15.24)	0.100 (2.54)	0.500 (12.70)	0.100 (2.54)	0.500 (12.70)

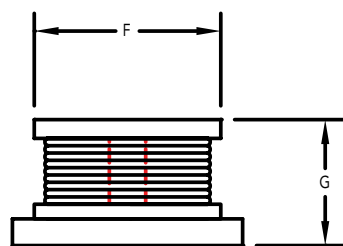
PART NUMBER	PART WEIGHT
RL-5022	3.0g (0.11oz)

G (MAX.)	H (REF.)	I (REF.)	J (REF.)
0.280 (7.11)	0.490 (12.45)	0.115 (2.92)	0.110 (2.79)

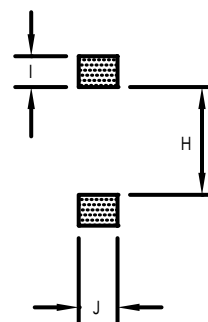
TOP VIEW



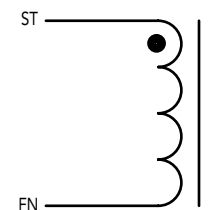
SIDE VIEW



RECOMMENDED LAND PATTERN



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-5022

Renco Part No. RL-5022	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)	SRF Typ. (MHz)
RL-5022-1.0	1.0	0.009	20.0	8.60	80.0
RL-5022-2.2	2.2	0.014	16.0	7.10	80.0
RL-5022-3.3	3.3	0.015	14.0	6.20	60.0
RL-5022-5.6	5.6	0.020	12.0	5.30	40.0
RL-5022-10	10.0	0.031	10.0	4.30	30.0
RL-5022-15	15.0	0.036	8.0	4.00	22.0
RL-5022-22	22.0	0.047	7.0	3.50	20.0
RL-5022-33	33.0	0.066	5.5	3.00	15.0
RL-5022-47	47.0	0.086	4.5	2.60	9.0
RL-5022-68	68.0	0.130	3.5	2.30	8.0
RL-5022-100	100.0	0.190	3.0	1.80	7.0
RL-5022-150	150.0	0.270	2.6	1.50	6.0
RL-5022-220	220.0	0.420	2.4	1.20	5.0
RL-5022-330	330.0	0.560	1.9	1.00	4.0
RL-5022-470	470.0	0.850	1.4	0.82	3.0
RL-5022-680	680.0	1.100	1.2	0.72	2.5
RL-5022-1000	1000.0	1.800	1.0	0.56	2.0

NOTES:

1. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 10%
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. INDUCTANCE $\pm 20\%$ TESTED AT 100 kHz, 0.1 Vrms
5. RESISTANCE TO SOLDER HEAT: 260°C FOR 10 SECONDS



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