



RL-7550-3

HIGH CURRENT SMD POWER INDUCTORS

DESCRIPTION

- High Current 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. 490

FEATURES & APPLICATIONS

- Surface mount inductor with high current rating
- Extremely low DCR to minimize power loss
- Ideal for use in a variety of high performance DC-DC converter inductor applications

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

MECHANICAL DIMENSIONS

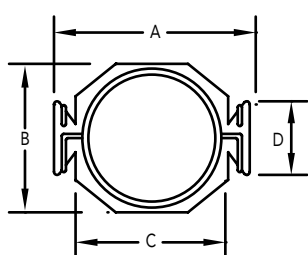
U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C	D (MAX.)	E (MAX.)	F (REF.)
RL-7550-3	0.350 (8.89)	0.240 (6.10)	0.230 (5.84)	0.147 (3.73)	0.196 (5.00)	0.080 (1.91)

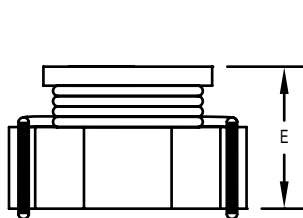
PART NUMBER	PART WEIGHT
RL-7550-3	0.3g (0.01oz)

G (REF.)	H (REF.)
0.200 (5.08)	0.160 (4.06)

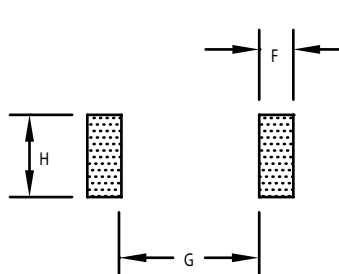
TOP VIEW



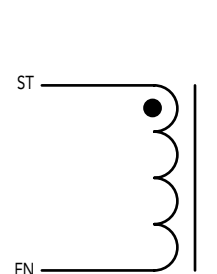
SIDE VIEW



RECOMMENDED LAND PATTERN



SCHEMATIC



RL-7550-3

Renco Part No. RL-7550-3	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)	SRF (MHz) Typ.
RL-7550-3-R56M	0.56 $\pm$ 20%	0.010	7.70	6.00	200.0
RL-7550-3-1R2M	1.20 $\pm$ 20%	0.017	5.30	4.40	140.0
RL-7550-3-2R2M	2.20 $\pm$ 20%	0.035	3.50	3.10	100.0
RL-7550-3-4R7M	4.70 $\pm$ 20%	0.054	2.60	2.20	50.0
RL-7550-3-100M	10.00 $\pm$ 20%	0.111	1.90	1.50	40.0
RL-7550-3-150M	15.00 $\pm$ 20%	0.170	1.50	1.20	30.0
RL-7550-3-220M	22.00 $\pm$ 20%	0.250	1.20	1.00	25.0
RL-7550-3-330M	33.00 $\pm$ 20%	0.350	0.99	0.82	20.0
RL-7550-3-470M	47.00 $\pm$ 20%	0.470	0.87	0.72	15.0

NOTES:

1. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 5%
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 TESTED AT 100 kHz, 0.25 Vrms



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

