



RL-8600

SMD HIGH ENERGY POWER INDUCTORS

DESCRIPTION

- SMD Power Inductors

ENVIRONMENTAL DATA

- Storage temperature range:
-55°C to +130°C
- Operating temperature range:
-40°C to +130°C

PACKAGING INFORMATION

- Packaging information: pg. 491

FEATURES & APPLICATIONS

- RL-8600 series is one of the highest power, pick and place, surface mount power inductors on the market
- Offers high energy density in a small footprint
- This series offers 15 industry standard inductance values up to 10 mH and current capabilities above 5 A
- Ideal for LED drivers and DC-DC converters used in laptop computers, step-up and step down converters and other electronic equipment

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

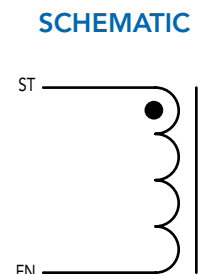
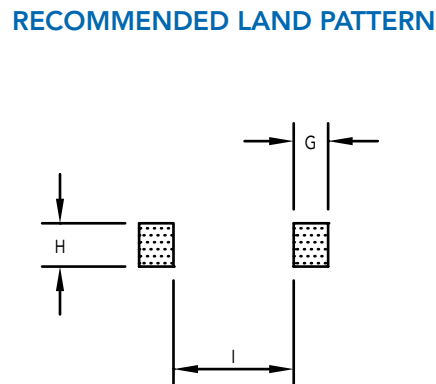
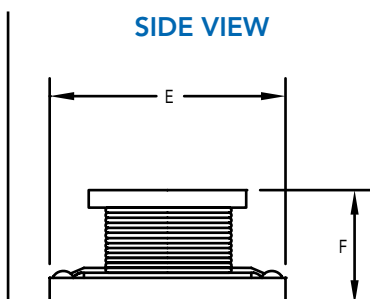
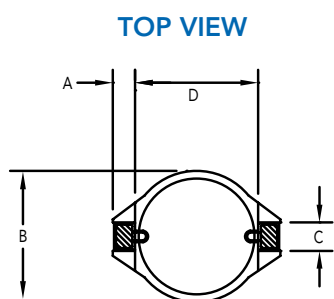
MECHANICAL DIMENSIONS

U.S. Standard (mm)

PART NUMBER	A ± 0.008 (0.20)	B (MAX.)	C ± 0.008 (0.20)	D ± 0.011 (0.30)	E (MAX.)
RL-8600	0.094 (2.4)	0.601 (15.30)	0.086 (2.20)	0.523 (13.30)	0.735 (18.70)

PART NUMBER	PART WEIGHT
RL-8600	7.0g (0.25oz)

F (MAX.)	G (REF.)	H (REF.)	I (REF.)
0.452 (11.50)	0.120 (3.00)	0.110 (2.80)	0.500 (12.70)



RENCO ELECTRONICS INC.



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RL-8600

Renco Part No. RL-8600	Inductance (μ H)	DCR Max. (mOhms)	Isat (A)	Irms (A)
RL-8600-470M	47.00 $\pm$ 20%	55.0	5.20	3.70
RL-8600-680M	68.00 $\pm$ 20%	75.0	4.30	3.10
RL-8600-101M	100.00 $\pm$ 20%	125.0	3.60	2.50
RL-8600-151M	150.00 $\pm$ 20%	190.0	3.00	2.00
RL-8600-221M	220.00 $\pm$ 20%	280.0	2.50	1.60
RL-8600-331M	330.00 $\pm$ 20%	370.0	2.00	1.40
RL-8600-471M	470.00 $\pm$ 20%	510.0	1.60	1.20
RL-8600-681M	680.00 $\pm$ 20%	800.0	1.40	1.00
RL-8600-102M	1000.00 $\pm$ 20%	1100.0	1.15	0.80
RL-8600-152M	1500.00 $\pm$ 20%	1600.0	0.95	0.60
RL-8600-222M	2200.00 $\pm$ 20%	2300.0	0.80	0.50
RL-8600-332M	3300.00 $\pm$ 20%	3600.0	0.65	0.40
RL-8600-472M	4700.00 $\pm$ 20%	5200.0	0.55	0.35
RL-8600-682M	6800.00 $\pm$ 20%	7700.0	0.45	0.30
RL-8600-103M	10000.00 $\pm$ 20%	11000.0	0.38	0.25

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. RESISTANCE TO SOLDER HEAT: 260°C 10 SECONDS
5. COMPLETE WINDING TO CORE ISOLATION
6. INDUCTANCE TESTED AT 10 kHz, 0.1Vrms



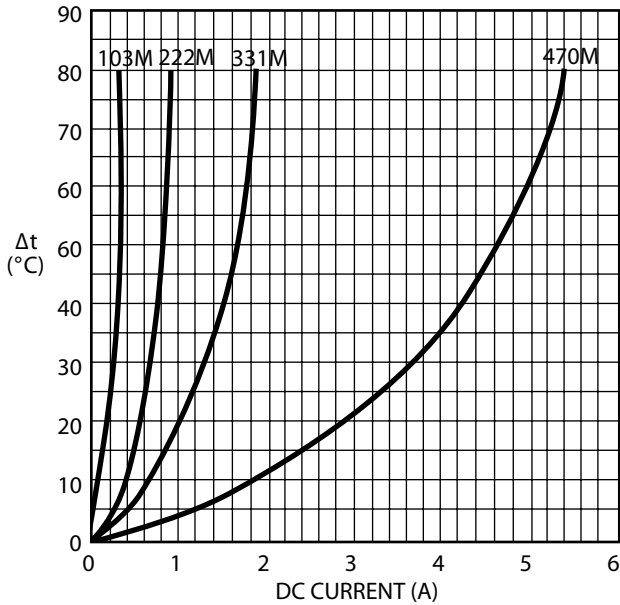
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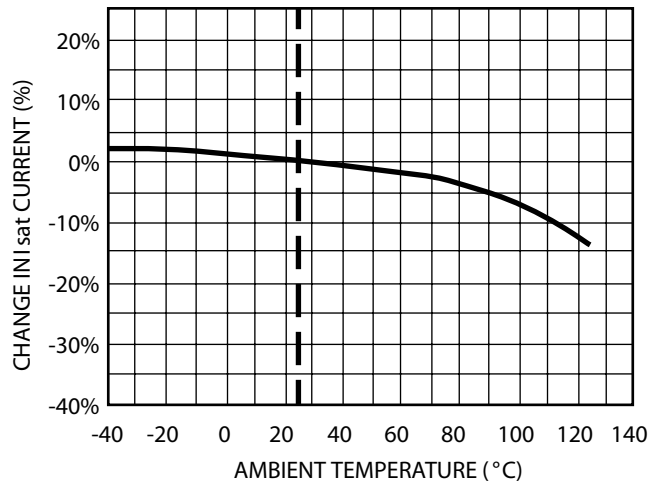


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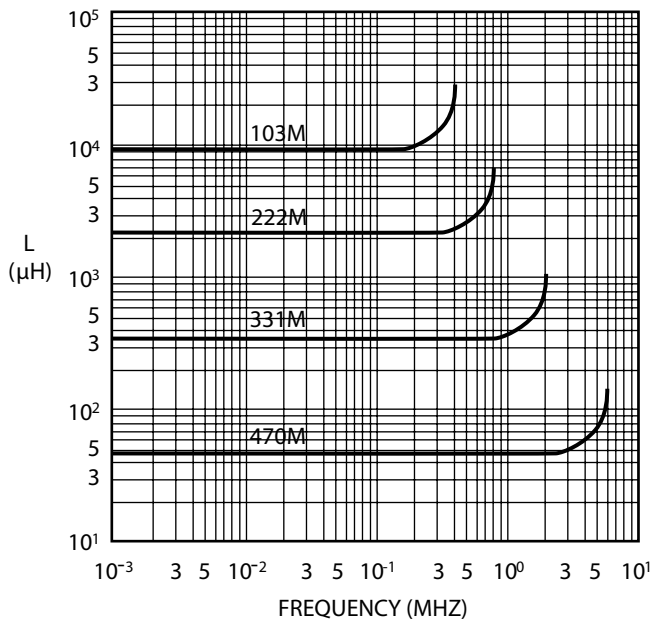
TEMP. RISE VS. CURRENT



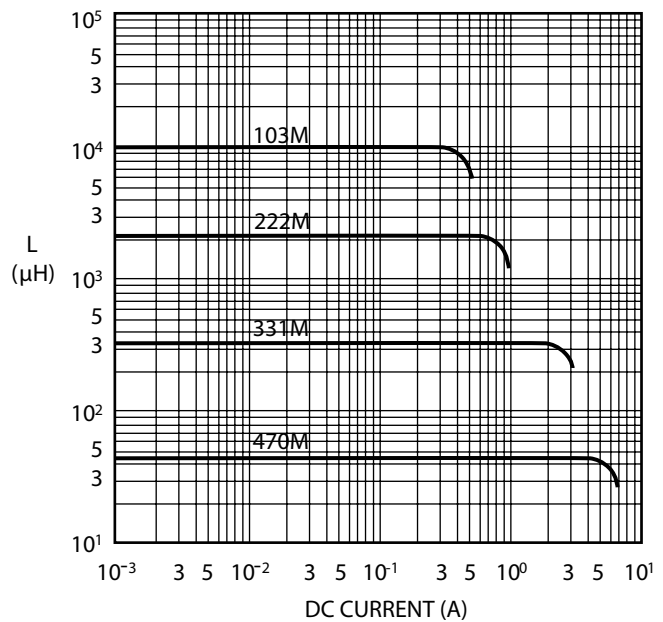
TYPICAL I_{sat} DERATING



INDUCTANCE VS. FREQUENCY



INDUCTANCE VS. CURRENT



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