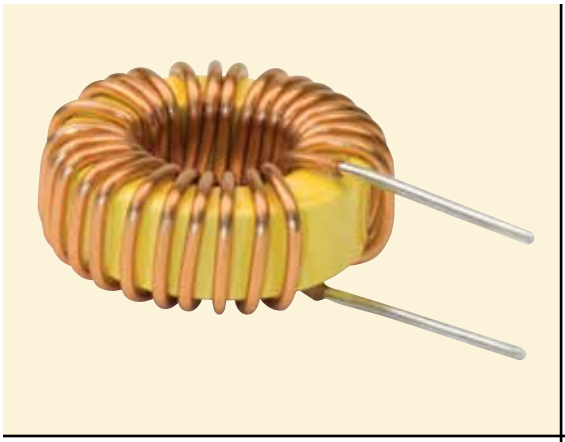


RL-3435

TOROIDAL POWER INDUCTOR
SELF-LEADED

DESCRIPTION
- Toroidal 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. 509

FEATURES & APPLICATIONS
- Rugged construction
- Single layer design
- All flame retardant materials
- Featuring a no radiation design
- Perfect for use in switching power supplies and circuits where EMI must be eliminated
- Small size in conjunction with their PCB mounting makes them suitable for high density packaging and easy insertion
- High SRF one-layer design

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

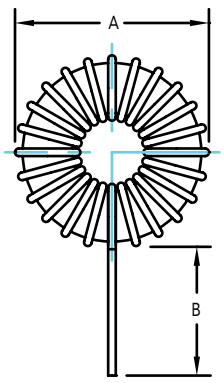
MECHANICAL DIMENSIONS

U.S. Standard (mm)

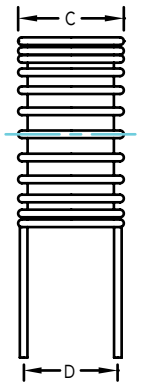
COIL SIZE CODE	A (MAX.)	B (MIN.)	C (MAX.)	D (TYP.)
A	0.50 (12.70)	0.375 (9.53)	0.22 (5.59)	0.220 (5.59)
B	0.64 (16.26)	0.375 (9.53)	0.32 (8.13)	0.300 (7.62)
C	0.79 (20.07)	0.375 (9.53)	0.32 (8.13)	0.300 (7.62)
D	1.00 (25.40)	0.375 (9.53)	0.49 (12.45)	0.450 (11.43)
E	1.23 (31.24)	0.875 (22.23)	0.56 (14.22)	0.500 (12.70)
F	1.50 (38.10)	0.875 (22.23)	0.62 (15.75)	0.510 (12.95)
G	0.78 (19.81)	0.750 (19.05)	0.29 (7.37)	0.520 (13.21)
H	0.61 (15.49)	0.750 (19.05)	0.26 (6.60)	0.530 (13.46)

PART NUMBER	PART WEIGHT
RL-3435 2.0	16.0g (0.56oz)
RL-3435 2.5	17.0g (0.60oz)
RL-3435 3.0	18.0g (0.64oz)
RL-3435 3.5	20.0g (0.71oz)
RL-3435 4.0	28.0g (1.00oz)
RL-3435 5.0	35.0g (1.24oz)
RL-3435 7.0	38.0g (1.34oz)
RL-3435 10.0	40.0g (1.41oz)

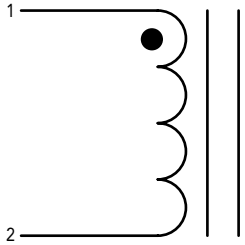
FRONT VIEW



SIDE VIEW



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

RoHS COMPLIANT

RL-3435

Renco Part No.	Inductance Typ. (µH) (1)	Coil Size Code	Isat (A)	E Top (V-µSec)
RL-3435-20-2.0	20.0	H	2.0	52.0
RL-3435-25-2.5	25.0	A	2.5	30.0
RL-3435-50-2.5	50.0	B	2.5	50.0
RL-3435-100-2.5	100.0	C	2.5	90.0
RL-3435-35-2.5	35.0	B	2.5	55.0
RL-3435-70-3.0	70.0	C	3.0	85.0
RL-3435-145-3.0	145.0	D	3.0	140.0
RL-3435-285-3.0	285.0	E	3.0	300.0
RL-3435-450-3.0	450.0	F	3.0	425.0
RL-3435-100-3.5	100.0	D	3.5	130.0
RL-3435-165-4.0	165.0	E	4.0	240.0
RL-3435-270-4.0	270.0	F	4.0	350.0
RL-3435-40-4.0	40.0	C	4.0	70.0
RL-3435-12-5.0	12.0	G	5.0	44.0
RL-3435-100-5.0	100.0	E	5.0	200.0
RL-3435-170-5.0	170.0	F	5.0	300.0
RL-3435-55-5.0	55.0	D	5.0	100.0
RL-3435-95-7.0	95.0	F	7.0	225.0
RL-3435-55-7.0	55.0	E	7.0	150.0
RL-3435-55-10.0	55.0	F	10.0	175.0

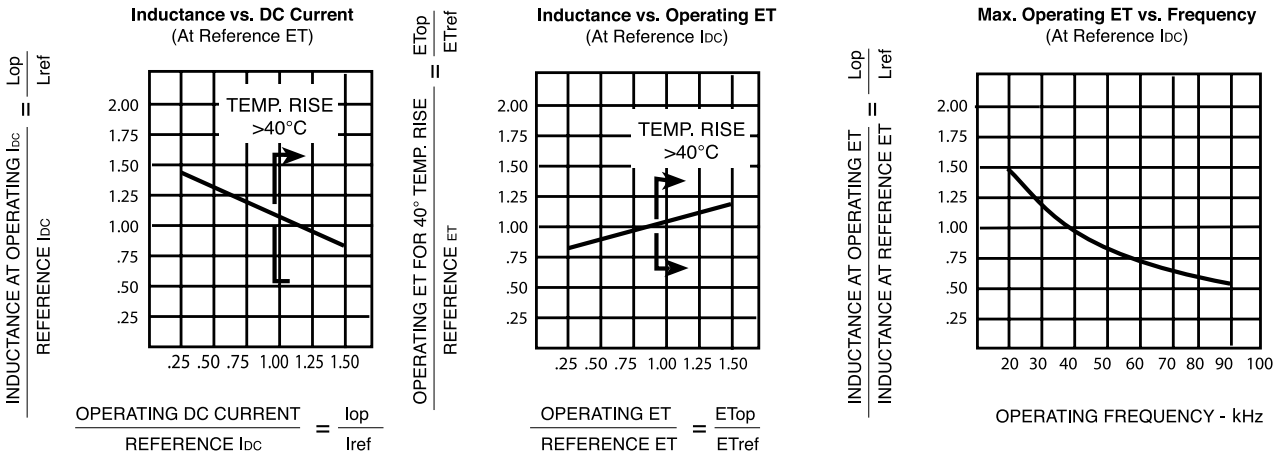
NOTES:
1. Isat AND ETop VALUES SHOW POINT OF TYPICAL INDUCTANCE
2. $\frac{LI^2}{2}$ RATING IS THE ABILITY OF THE INDUCTOR TO STORE ENERGY
3. Tested at 20kHz/100mVac

RL-3435

Renco Part No.	DESIGN CONTROL				
	Inductance +20 (µH)-12%	DCR Max. (Ohms)	Coil Size Code	Lead Dia. (in.+.003)	Min. Energ. Storage (µJ) (2)
RL-3435-20-2.0	32.8	0.06	H	0.020	40.0
RL-3435-25-2.5	20.7	0.04	A	0.020	75.0
RL-3435-50-2.5	45.7	0.07	B	0.020	150.0
RL-3435-100-2.5	94.1	0.10	C	0.020	300.0
RL-3435-35-2.5	28.4	0.04	B	0.025	110.0
RL-3435-70-3.0	61.0	0.05	C	0.025	300.0
RL-3435-145-3.0	141.8	0.08	D	0.025	650.0
RL-3435-285-3.0	264.1	0.14	E	0.025	1275.0
RL-3435-450-3.0	463.3	0.20	F	0.025	2000.0
RL-3435-100-3.5	90.7	0.04	D	0.032	600.0
RL-3435-165-4.0	152.0	0.07	E	0.032	1300.0
RL-3435-270-4.0	263.9	0.10	F	0.032	2150.0
RL-3435-40-4.0	37.9	0.03	C	0.032	300.0
RL-3435-12-5.0	20.3	0.03	G	0.032	150.0
RL-3435-100-5.0	90.7	0.04	E	0.042	1250.0
RL-3435-170-5.0	159.7	0.05	F	0.042	2100.0
RL-3435-55-5.0	54.9	0.02	D	0.042	650.0
RL-3435-95-7.0	96.0	0.03	F	0.051	2300.0
RL-3435-55-7.0	49.1	0.02	E	0.051	1300.0
RL-3435-55-10.0	55.9	0.02	F	0.064	2750.0

NOTES:
1. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C

OPERATING CONDITIONS:



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