



# RL-3410

## RL-3420, RL-3430 CURRENT SENSORS



### DESCRIPTION

- Current Sensors

### ENVIRONMENTAL DATA

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

### PACKAGING INFORMATION

- Packaging information: pg. 494

### FEATURES & APPLICATIONS

- Molded aperture for primary wire(s)
- Frequency range up to 100 kHz
- Meets VDE specifications
- PCB mounting
- Typical applications include: isolated current feedback signal in switched-mode power supplies, motor current load/overload, isolated bi-directional current sensor with full-wave bridge rectifier, ultrasound current, and high resolution sonar current

Verify operation with sample in actual circuit. Order samples at [www.rencousa.com](http://www.rencousa.com).

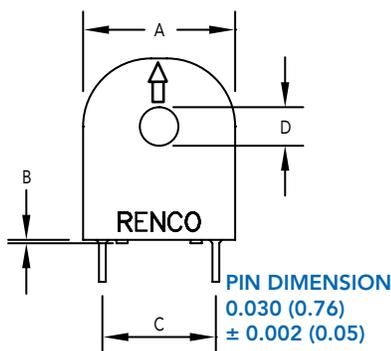
### MECHANICAL DIMENSIONS

U.S. Standard (mm)

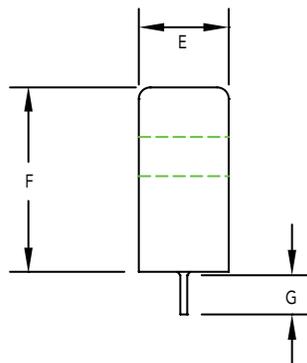
PART NUMBER	A (MAX.)	B (MIN.)	C (TYP.)	D (TYP.)	E (MAX.)	F (MAX.)	G (MIN.)
RL-3410	0.670 (17.02)	0.015 (0.38)	0.500 (12.70)	0.170 (4.32)	0.390 (9.91)	0.800 (20.32)	0.170 (4.32)
RL-3420	0.670 (17.02)	0.015 (0.38)	0.500 (12.70)	0.170 (4.32)	0.390 (9.91)	0.800 (20.32)	0.170 (4.32)
RL-3430	0.670 (17.02)	0.015 (0.38)	0.500 (12.70)	0.170 (4.32)	0.390 (9.91)	0.800 (20.32)	0.170 (4.32)

PART NUMBER	PART WEIGHT
RL-3410	5.0g (0.18oz)
RL-3420	5.0g (0.18oz)
RL-3430	5.0g (0.18oz)

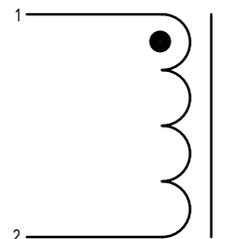
FRONT VIEW



SIDE VIEW



SCHEMATIC



**RENCO ELECTRONICS INC.**

595 International Place, Rockledge, FL 32955-4200 USA • [www.rencousa.com](http://www.rencousa.com) • ISO 9001 Certified  
Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600



# RL-3410, RL-3420, RL-3430

Renco Part No.	Sensing Range (A)	Frequency Response * (kHz)	Secondary Turns	Secondary Inductance mH (Min.)	Secondary Inductance Test Voltage @ 15.75 kHz	Secondary DCR Max. (Ohms)
RL-3410	2-10	5-25	50	5.0	0.5	0.70
RL-3420	2-14	5-50	100	20.0	1.0	1.40
RL-3430	1-35	1-100	200	80.0	2.0	4.50

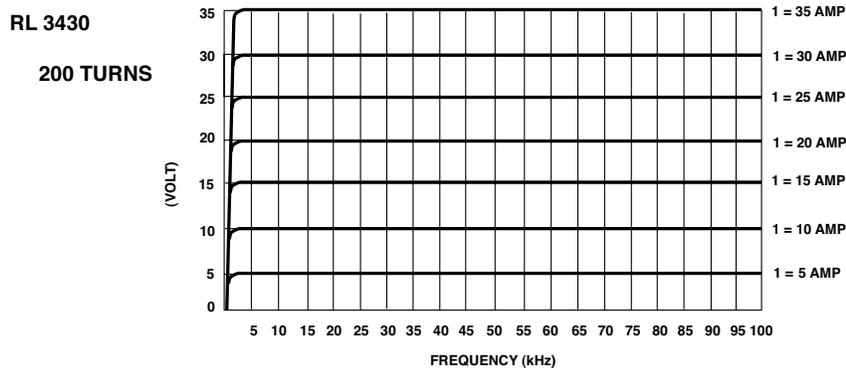
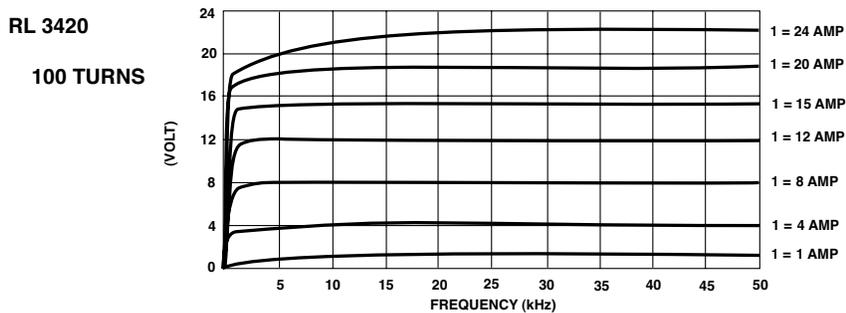
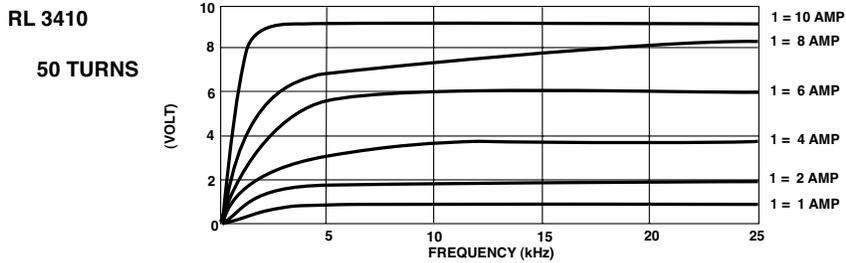
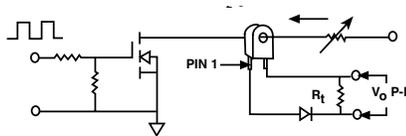
Renco Part No.	Secondary Terminating Resistance (Ohms) ** Nom.	Primary Unipolar Amp usec. Rating (Max.)	Primary Bipolar Amp usec. Rating (Max.)	1 Turn Primary Peak Sense Current (A)
RL-3410	50	150	300	20
RL-3420	100	300	600	20
RL-3430	200	600	1200	20

**NOTES:**

\* OUTSIDE FREQUENCY RANGE SQUARE WAVE DETERIORATES

\*\* VARYING R AFFECTS OUTPUT AND FREQUENCY RESPONSE

## TEST CIRCUIT



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