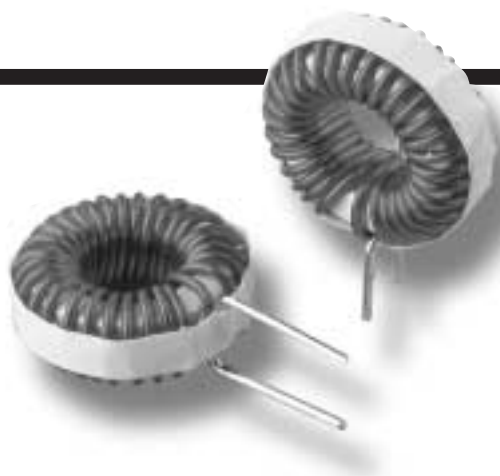




# RL-1386

## SWINGDUCTOR™

SELF LEADED



Swinging choke requirements can now be satisfied with the RL-1386 Series of SWINGDUCTORS™ that were primarily designed for use in applications that require a known inductance change with changing current loads as in power supplies.

Although similar in appearance to conventional toroids, the special core material allows a "controlled saturation" so that a specific inductance value is repeatable at a specific current. The core material is effective up to 1 MHz. As a result of the toroidal design the SWINGDUCTORS™ produce a closed magnetic field resulting in low EMI. All chokes are supplied with pretinned leads for easy PC board installation.

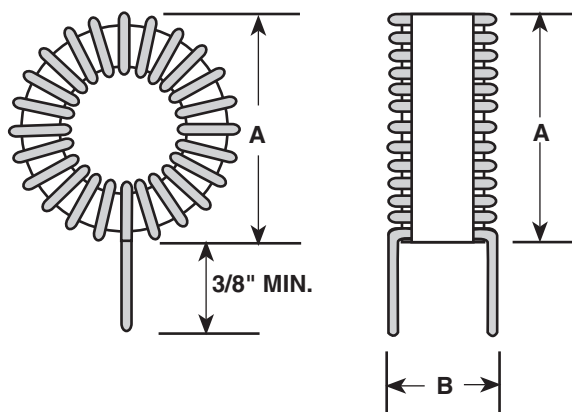
## Typical Applications:

- Switching Power Supplies
- Hash Filters
- RF Filters
- Output Chokes
- EMI/RFI Filtering

Selecting the correct SWINGDUCTOR™ is simplified since a wide choice of standard devices covering an extensive range of inductance values and current ratings are available.

| PART NUMBER | A<br>MAX DIA. | B<br>MAX. WIDTH |
|-------------|---------------|-----------------|
| RL-1386-1   | 1.1           | 0.500           |
| RL-1386-2   | 1.45          | 0.875           |
| RL-1386-3   | 1.8           | 0.900           |
| RL-1386-4   | 2.0           | 1.1             |
| RL-1386-5   | 2.6           | 1.5             |

ALL DIMENSIONS IN INCHES



## RENCO ELECTRONICS, INC.

595 International Place, Rockledge, FL 32955-4200 USA

(321) 637-1000 • Toll Free Engineering Hot line 800-645-5828

Fax: (321) 637-1600 Web Site: [www.rencousa.com](http://www.rencousa.com) E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)

| <b>RL-1386-1</b> |                                  |                       |                                      |                           |                            |                            |                            |                            |                            |
|------------------|----------------------------------|-----------------------|--------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Renco Part No.   | L @ 0<br>Amps D.C.<br>( $\mu$ H) | Max<br>RDC.<br>(ohms) | Suggested<br>Rated Current<br>(Amps) | 0% L<br>Drop<br>(DC Amps) | 10% L<br>Drop<br>(DC Amps) | 20% L<br>Drop<br>(DC Amps) | 30% L<br>Drop<br>(DC Amps) | 40% L<br>Drop<br>(DC Amps) | 50% L<br>Drop<br>(DC Amps) |
| RL-1386-1-1.1    | 1.1                              | .003                  | 5                                    | 4.7                       | 13.0                       | 19.4                       | 26.8                       | 35.1                       | 46.1                       |
| RL-1386-1-1.8    | 1.8                              | .004                  | 5                                    | 3.7                       | 10.3                       | 15.5                       | 21.4                       | 28.1                       | 36.9                       |
| RL-1386-1-2.3    | 2.3                              | .004                  | 5                                    | 3.1                       | 8.6                        | 12.9                       | 17.9                       | 23.4                       | 30.7                       |
| RL-1386-1-3.3    | 3.3                              | .005                  | 5                                    | 2.6                       | 7.4                        | 11.7                       | 15.3                       | 20.1                       | 26.4                       |
| RL-1386-1-4.7    | 4.7                              | .006                  | 5                                    | 2.3                       | 6.5                        | 9.7                        | 13.4                       | 17.6                       | 23.1                       |
| RL-1386-1-5.6    | 5.6                              | .006                  | 5                                    | 2.1                       | 5.7                        | 8.6                        | 11.9                       | 15.6                       | 20.5                       |
| RL-1386-1-6.8    | 6.8                              | .007                  | 5                                    | 1.9                       | 5.2                        | 7.5                        | 10.7                       | 14.1                       | 18.5                       |
| RL-1386-1-8.2    | 8.2                              | .008                  | 5                                    | 1.7                       | 4.7                        | 7.1                        | 9.7                        | 12.8                       | 16.8                       |
| RL-1386-1-10     | 10                               | .009                  | 5                                    | 1.5                       | 4.3                        | 6.5                        | 8.9                        | 11.7                       | 15.4                       |
| RL-1386-1-12     | 12                               | .010                  | 5                                    | 1.3                       | 3.7                        | 5.6                        | 7.7                        | 10.1                       | 13.2                       |
| RL-1386-1-15     | 15                               | .011                  | 5                                    | 1.2                       | 3.2                        | 4.8                        | 6.7                        | 8.8                        | 11.5                       |
| RL-1386-1-18     | 18                               | .012                  | 5                                    | .96                       | 2.7                        | 4.1                        | 5.6                        | 7.4                        | 9.7                        |
| RL-1386-1-22     | 22                               | .013                  | 5                                    | .92                       | 2.6                        | 3.9                        | 5.4                        | 7.1                        | 9.3                        |
| RL-1386-1-27     | 27                               | .014                  | 5                                    | .84                       | 2.4                        | 3.5                        | 4.9                        | 6.4                        | 8.4                        |
| RL-1386-1-33     | 33                               | .016                  | 5                                    | .74                       | 2.1                        | 3.1                        | 4.3                        | 5.6                        | 7.4                        |
| RL-1386-1-39     | 39                               | .018                  | 5                                    | .68                       | 1.9                        | 2.9                        | 4.0                        | 5.2                        | 6.8                        |
| RL-1386-1-47     | 47                               | .019                  | 5                                    | .61                       | 1.7                        | 2.6                        | 3.6                        | 4.7                        | 6.2                        |
| RL-1386-1-56     | 56                               | .022                  | 5                                    | .58                       | 1.6                        | 2.4                        | 3.4                        | 4.4                        | 5.8                        |
| RL-1386-1-68     | 68                               | .023                  | 5                                    | .52                       | 1.5                        | 2.2                        | 3.1                        | 4.0                        | 5.3                        |
| RL-1386-1-82     | 82                               | .025                  | 5                                    | .47                       | 1.3                        | 2.0                        | 2.8                        | 3.6                        | 4.7                        |
| RL-1386-1-100    | 100                              | .029                  | 5                                    | .43                       | 1.2                        | 1.9                        | 2.6                        | 3.5                        | 4.4                        |
| RL-1386-1-120    | 120                              | .032                  | 5                                    | .40                       | 1.1                        | 1.7                        | 2.3                        | 3.1                        | 4.0                        |
| RL-1386-1-150    | 150                              | .036                  | 5                                    | .36                       | 1.0                        | 1.5                        | 2.1                        | 2.8                        | 3.6                        |
| RL-1386-1-180    | 180                              | .044                  | 5                                    | .30                       | .92                        | 1.4                        | 1.9                        | 2.5                        | 3.3                        |
| RL-1386-1-220    | 220                              | .054                  | 4.5                                  | .30                       | .83                        | 1.2                        | 1.7                        | 2.3                        | 3.0                        |
| RL-1386-1-270    | 270                              | .061                  | 4.5                                  | .27                       | .79                        | 1.4                        | 1.6                        | 2.1                        | 2.7                        |
| RL-1386-1-330    | 330                              | .088                  | 3.5                                  | .23                       | .64                        | 1.6                        | 1.3                        | 1.8                        | 2.3                        |
| RL-1386-1-390    | 390                              | .096                  | 3.5                                  | .21                       | .60                        | .90                        | 1.3                        | 1.6                        | 2.2                        |
| RL-1386-1-470    | 470                              | .110                  | 3.5                                  | .20                       | .57                        | .85                        | 1.2                        | 1.6                        | 2.1                        |
| RL-1386-1-560    | 560                              | .172                  | 2.0                                  | .18                       | .50                        | .74                        | 1.0                        | 1.4                        | 1.8                        |
| RL-1386-1-680    | 680                              | .198                  | 2.0                                  | .16                       | .46                        | .68                        | .95                        | 1.3                        | 1.7                        |
| RL-1386-1-820    | 820                              | .250                  | 1.5                                  | .15                       | .42                        | .64                        | .89                        | 1.2                        | 1.5                        |
| RL-1386-1-1000   | 1000                             | .286                  | 1.5                                  | .14                       | .38                        | .57                        | .79                        | 1.1                        | 1.4                        |
| RL-1386-1-1200   | 1200                             | .407                  | 1.2                                  | .12                       | .33                        | .50                        | .68                        | .90                        | 1.2                        |
| RL-1386-1-1500   | 1500                             | .469                  | 1.2                                  | .11                       | .30                        | .44                        | .61                        | .81                        | 1.1                        |

**NOTES:**

1. Inductance  $\pm 25\%$ , measured at 1 KHz on ESI Model #252.
2. Drive level at which you test is important.
3. Leads for PC mounting tinned to within 1/16" of body.
4. Nonstandard values available on request.
5. Encapsulation available.
6. RDC measured @20°C.
7. On larger units and units wound with finer wire additional mechanical mounting is recommended.
8. Horizontal mounted units also available.
9. Saturation currents shown are for MAXIMUM drop of L indicated, i.e., if 20% drop for a 100 $\mu$ H choke is at 2 Amps, at 2 Amps the L will be  $\geq 80\mu$ H.



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| <b>RL-1386-2</b> |                            |                       |                                      |                           |                            |                            |                            |                            |                            |
|------------------|----------------------------|-----------------------|--------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Renco Part No.   | L @ 0<br>Amps D.C.<br>(μH) | Max<br>RDC.<br>(ohms) | Suggested<br>Rated Current<br>(Amps) | 0% L<br>Drop<br>(DC Amps) | 10% L<br>Drop<br>(DC Amps) | 20% L<br>Drop<br>(DC Amps) | 30% L<br>Drop<br>(DC Amps) | 40% L<br>Drop<br>(DC Amps) | 50% L<br>Drop<br>(DC Amps) |
| RL-1386-2-1.2    | 1.2                        | .003                  | 5                                    | 7.7                       | 21.7                       | 32.7                       | 45.0                       | 59.1                       | 77.7                       |
| RL-1386-2-2.0    | 2.0                        | .004                  | 5                                    | 8.8                       | 15.4                       | 24.5                       | 33.8                       | 44.3                       | 58.2                       |
| RL-1386-2-3.3    | 3.3                        | .005                  | 5                                    | 4.7                       | 13.1                       | 19.6                       | 27.0                       | 35.5                       | 46.6                       |
| RL-1386-2-4.7    | 4.7                        | .006                  | 5                                    | 3.9                       | 10.9                       | 16.4                       | 22.5                       | 29.5                       | 38.8                       |
| RL-1386-2-6.8    | 6.8                        | .007                  | 5                                    | 3.3                       | 9.3                        | 14.0                       | 19.3                       | 25.3                       | 33.3                       |
| RL-1386-2-8.2    | 8.2                        | .008                  | 5                                    | 2.9                       | 8.1                        | 12.3                       | 16.9                       | 22.1                       | 29.1                       |
| RL-1386-2-10     | 10                         | .010                  | 5                                    | 2.6                       | 7.3                        | 10.9                       | 15.0                       | 20.0                       | 25.8                       |
| RL-1386-2-12     | 12                         | .011                  | 5                                    | 2.3                       | 6.6                        | 9.8                        | 13.5                       | 17.7                       | 23.3                       |
| RL-1386-2-15     | 15                         | .011                  | 5                                    | 2.1                       | 5.9                        | 8.9                        | 12.3                       | 16.1                       | 21.2                       |
| RL-1386-2-18     | 18                         | .012                  | 5                                    | 1.9                       | 5.5                        | 8.2                        | 11.3                       | 14.8                       | 18.9                       |
| RL-1386-2-22     | 22                         | .013                  | 5                                    | 1.8                       | 5.0                        | 7.5                        | 10.4                       | 13.6                       | 17.4                       |
| RL-1386-2-27     | 27                         | .013                  | 5                                    | 1.6                       | 4.4                        | 6.5                        | 9.0                        | 11.8                       | 15.5                       |
| RL-1386-2-33     | 33                         | .018                  | 5                                    | 1.4                       | 3.8                        | 5.8                        | 7.9                        | 10.4                       | 13.7                       |
| RL-1386-2-39     | 39                         | .019                  | 5                                    | 1.2                       | 3.4                        | 5.2                        | 7.1                        | 9.3                        | 12.2                       |
| RL-1386-2-47     | 47                         | .022                  | 5                                    | 1.2                       | 3.3                        | 4.9                        | 6.8                        | 8.8                        | 11.6                       |
| RL-1386-2-56     | 56                         | .024                  | 5                                    | 1.0                       | 2.8                        | 4.3                        | 5.9                        | 7.7                        | 10.1                       |
| RL-1386-2-68     | 68                         | .028                  | 5                                    | .93                       | 2.6                        | 3.9                        | 5.1                        | 7.0                        | 9.3                        |
| RL-1386-2-82     | 82                         | .030                  | 5                                    | .83                       | 2.3                        | 3.5                        | 4.8                        | 6.3                        | 8.3                        |
| RL-1386-2-100    | 100                        | .032                  | 5                                    | .75                       | 2.1                        | 3.2                        | 4.4                        | 5.7                        | 7.5                        |
| RL-1386-2-120    | 120                        | .036                  | 5                                    | .70                       | 1.9                        | 3.0                        | 4.1                        | 5.3                        | 7.0                        |
| RL-1386-2-150    | 150                        | .042                  | 5                                    | .64                       | 1.8                        | 2.7                        | 3.7                        | 4.9                        | 6.4                        |
| RL-1386-2-180    | 180                        | .046                  | 5                                    | .57                       | 1.5                        | 2.4                        | 3.3                        | 4.3                        | 5.7                        |
| RL-1386-2-220    | 220                        | .053                  | 5                                    | .51                       | 1.5                        | 2.2                        | 3.0                        | 3.9                        | 5.1                        |
| RL-1386-2-270    | 270                        | .059                  | 5                                    | .48                       | 1.3                        | 2.0                        | 2.8                        | 3.6                        | 4.8                        |
| RL-1386-2-330    | 330                        | .064                  | 5                                    | .43                       | 1.2                        | 1.8                        | 2.5                        | 3.3                        | 4.3                        |
| RL-1386-2-390    | 390                        | .068                  | 5                                    | .39                       | 1.1                        | 1.7                        | 2.3                        | 3.0                        | 3.9                        |
| RL-1386-2-470    | 470                        | .076                  | 5                                    | .36                       | 1.0                        | 1.5                        | 2.1                        | 2.7                        | 3.6                        |
| RL-1386-2-560    | 560                        | .086                  | 5                                    | .32                       | .90                        | 1.4                        | 1.9                        | 2.5                        | 3.2                        |
| RL-1386-2-680    | 680                        | .131                  | 4.5                                  | .29                       | .81                        | 1.2                        | 1.7                        | 2.2                        | 2.9                        |
| RL-1386-2-820    | 820                        | .143                  | 4.5                                  | .26                       | .74                        | 1.1                        | 1.5                        | 2.0                        | 2.6                        |
| RL-1386-2-1000   | 1000                       | .161                  | 4.5                                  | .24                       | .67                        | 1.0                        | 1.4                        | 1.8                        | 2.4                        |
| RL-1386-2-1200   | 1200                       | .180                  | 3.5                                  | .21                       | .59                        | .89                        | 1.2                        | 1.6                        | 2.1                        |
| RL-1386-2-1500   | 1500                       | .340                  | 2.0                                  | .19                       | .52                        | .78                        | 1.1                        | 1.4                        | 1.9                        |
| RL-1386-2-1800   | 1800                       | .371                  | 2.0                                  | .17                       | .48                        | .72                        | .99                        | 1.3                        | 1.7                        |
| RL-1386-2-2200   | 2200                       | .432                  | 2.0                                  | .15                       | .43                        | .65                        | .90                        | 1.2                        | 1.6                        |
| RL-1386-2-2700   | 2700                       | .520                  | 2.0                                  | .12                       | .38                        | .58                        | .78                        | 1.1                        | 1.4                        |



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📠 Fax: (321) 637-1600 🌐 Web Site: [www.rencousa.com](http://www.rencousa.com) ✉ E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)

| <b>RL-1386-3</b> |                            |                       |                                      |                           |                            |                            |                            |                            |                            |
|------------------|----------------------------|-----------------------|--------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Renco Part No.   | L @ 0<br>Amps D.C.<br>(μH) | Max<br>RDC.<br>(ohms) | Suggested<br>Rated Current<br>(Amps) | 0% L<br>Drop<br>(DC Amps) | 10% L<br>Drop<br>(DC Amps) | 20% L<br>Drop<br>(DC Amps) | 30% L<br>Drop<br>(DC Amps) | 40% L<br>Drop<br>(DC Amps) | 50% L<br>Drop<br>(DC Amps) |
| RL-1386-3-1.5    | 1.5                        | .003                  | 9                                    | 8.6                       | 23.7                       | 39.2                       | 54.9                       | 73.2                       | 96.3                       |
| RL-1386-3-2.2    | 2.2                        | .003                  | 9                                    | 6.4                       | 17.7                       | 29.4                       | 41.1                       | 54.9                       | 72.2                       |
| RL-1386-3-3.3    | 3.3                        | .004                  | 9                                    | 5.1                       | 14.1                       | 23.6                       | 32.9                       | 43.9                       | 57.8                       |
| RL-1386-3-5.6    | 5.6                        | .004                  | 9                                    | 4.2                       | 11.8                       | 19.6                       | 27.5                       | 36.6                       | 48.2                       |
| RL-1386-3-6.8    | 6.8                        | .005                  | 9                                    | 3.6                       | 10.1                       | 16.8                       | 23.5                       | 31.4                       | 41.2                       |
| RL-1386-3-10     | 10                         | .006                  | 9                                    | 2.8                       | 7.8                        | 13.1                       | 18.3                       | 24.4                       | 32.1                       |
| RL-1386-3-12     | 12                         | .007                  | 9                                    | 2.6                       | 7.1                        | 11.8                       | 16.5                       | 22.0                       | 28.9                       |
| RL-1386-3-15     | 15                         | .007                  | 9                                    | 2.3                       | 6.5                        | 9.9                        | 14.9                       | 19.9                       | 26.1                       |
| RL-1386-3-18     | 18                         | .008                  | 9                                    | 2.1                       | 5.9                        | 9.8                        | 13.7                       | 18.3                       | 24.0                       |
| RL-1386-3-22     | 22                         | .010                  | 9                                    | 1.9                       | 5.5                        | 9.0                        | 12.6                       | 16.8                       | 22.1                       |
| RL-1386-3-27     | 27                         | .011                  | 9                                    | 1.7                       | 4.7                        | 7.8                        | 11.0                       | 14.6                       | 19.3                       |
| RL-1386-3-33     | 33                         | .012                  | 9                                    | 1.5                       | 4.4                        | 7.3                        | 10.3                       | 13.7                       | 18.0                       |
| RL-1386-3-39     | 39                         | .013                  | 9                                    | 1.4                       | 3.9                        | 6.5                        | 9.1                        | 12.2                       | 16.0                       |
| RL-1386-3-47     | 47                         | .014                  | 9                                    | 1.3                       | 3.6                        | 5.9                        | 8.2                        | 11.0                       | 14.4                       |
| RL-1386-3-56     | 56                         | .016                  | 9                                    | 1.1                       | 3.2                        | 5.3                        | 7.5                        | 9.9                        | 13.1                       |
| RL-1386-3-68     | 68                         | .017                  | 9                                    | .99                       | 3.0                        | 4.9                        | 6.8                        | 9.1                        | 12.0                       |
| RL-1386-3-82     | 82                         | .019                  | 9                                    | .90                       | 2.7                        | 4.5                        | 6.3                        | 8.4                        | 11.1                       |
| RL-1386-3-100    | 100                        | .022                  | 9                                    | .88                       | 2.4                        | 4.1                        | 5.7                        | 7.6                        | 9.9                        |
| RL-1386-3-120    | 120                        | .024                  | 9                                    | .80                       | 2.2                        | 3.6                        | 5.1                        | 6.8                        | 9.3                        |
| RL-1386-3-150    | 150                        | .026                  | 9                                    | .73                       | 2.0                        | 3.3                        | 4.7                        | 6.2                        | 8.2                        |
| RL-1386-3-180    | 180                        | .029                  | 9                                    | .68                       | 1.9                        | 3.1                        | 4.3                        | 5.8                        | 7.6                        |
| RL-1386-3-220    | 220                        | .032                  | 9                                    | .58                       | 1.6                        | 2.6                        | 3.7                        | 5.0                        | 6.5                        |
| RL-1386-3-270    | 270                        | .035                  | 9                                    | .55                       | 1.5                        | 2.5                        | 3.5                        | 4.8                        | 6.2                        |
| RL-1386-3-330    | 330                        | .040                  | 9                                    | .50                       | 1.4                        | 2.3                        | 3.2                        | 4.3                        | 5.7                        |
| RL-1386-3-390    | 390                        | .054                  | 7                                    | .47                       | 1.3                        | 2.1                        | 3.0                        | 4.0                        | 5.3                        |
| RL-1386-3-470    | 470                        | .061                  | 7                                    | .43                       | 1.2                        | 2.0                        | 2.8                        | 3.7                        | 4.8                        |
| RL-1386-3-560    | 560                        | .068                  | 7                                    | .38                       | 1.0                        | 1.7                        | 2.4                        | 3.2                        | 4.3                        |
| RL-1386-3-680    | 680                        | .090                  | 5                                    | .34                       | .93                        | 1.6                        | 2.2                        | 2.9                        | 3.8                        |
| RL-1386-3-820    | 820                        | .148                  | 3.5                                  | .31                       | .86                        | 1.4                        | 2.0                        | 2.7                        | 3.5                        |
| RL-1386-3-1000   | 1000                       | .172                  | 3.5                                  | .27                       | .75                        | 1.2                        | 1.7                        | 2.3                        | 3.0                        |
| RL-1386-3-1200   | 1200                       | .190                  | 3.5                                  | .25                       | .68                        | 1.1                        | 1.6                        | 2.1                        | 2.8                        |
| RL-1386-3-1500   | 1500                       | .210                  | 3.5                                  | .22                       | .61                        | 1.0                        | 1.4                        | 1.9                        | 2.5                        |
| RL-1386-3-1800   | 1800                       | .232                  | 3.5                                  | .21                       | .57                        | .94                        | 1.3                        | 1.8                        | 2.3                        |
| RL-1386-3-2200   | 2200                       | .412                  | 2.0                                  | .18                       | .49                        | .81                        | 1.1                        | 1.5                        | 2.0                        |
| RL-1386-3-2700   | 2700                       | .450                  | 2.0                                  | .16                       | .45                        | .76                        | 1.1                        | 1.4                        | 1.9                        |
| RL-1386-3-3300   | 3300                       | .500                  | 2.0                                  | .15                       | .41                        | .69                        | .96                        | 1.3                        | 1.7                        |
| RL-1386-3-3900   | 3900                       | .541                  | 2.0                                  | .14                       | .38                        | .63                        | .87                        | 1.2                        | 1.5                        |



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✉ 595 International Place, Rockledge, FL 32955-4200 USA

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| <b>RL-1386-4</b> |                            |                       |                                      |                           |                            |                            |                            |                            |                            |
|------------------|----------------------------|-----------------------|--------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Renco Part No.   | L @ 0<br>Amps D.C.<br>(μH) | Max<br>RDC.<br>(ohms) | Suggested<br>Rated Current<br>(Amps) | 0% L<br>Drop<br>(DC Amps) | 10% L<br>Drop<br>(DC Amps) | 20% L<br>Drop<br>(DC Amps) | 30% L<br>Drop<br>(DC Amps) | 40% L<br>Drop<br>(DC Amps) | 50% L<br>Drop<br>(DC Amps) |
| RL-1386-4-1.2    | 1.2                        | .002                  | 14                                   | 11.7                      | 33.3                       | 50.4                       | 69.3                       | 90.9                       | 119.7                      |
| RL-1386-4-2.2    | 2.2                        | .002                  | 14                                   | 9.0                       | 25.2                       | 37.8                       | 52.2                       | 68.4                       | 90.0                       |
| RL-1386-4-3.3    | 3.3                        | .003                  | 14                                   | 7.2                       | 19.8                       | 29.7                       | 41.4                       | 54.0                       | 72.0                       |
| RL-1386-4-4.7    | 4.7                        | .003                  | 14                                   | 5.9                       | 16.2                       | 25.2                       | 34.2                       | 45.0                       | 59.4                       |
| RL-1386-4-6.8    | 6.8                        | .004                  | 14                                   | 5.1                       | 14.4                       | 21.6                       | 29.7                       | 38.7                       | 51.3                       |
| RL-1386-4-8.2    | 8.2                        | .004                  | 14                                   | 4.5                       | 12.6                       | 18.9                       | 26.1                       | 34.2                       | 45.0                       |
| RL-1386-4-10     | 10                         | .005                  | 14                                   | 3.0                       | 10.8                       | 16.2                       | 22.5                       | 29.7                       | 39.6                       |
| RL-1386-4-12     | 12                         | .005                  | 14                                   | 3.6                       | 9.9                        | 14.4                       | 20.7                       | 27.0                       | 36.0                       |
| RL-1386-4-15     | 15                         | .005                  | 14                                   | 3.2                       | 9.0                        | 13.5                       | 18.9                       | 24.3                       | 32.4                       |
| RL-1386-4-18     | 18                         | .006                  | 14                                   | 3.0                       | 8.4                        | 12.6                       | 17.2                       | 22.5                       | 29.7                       |
| RL-1386-4-22     | 22                         | .006                  | 14                                   | 2.8                       | 7.7                        | 11.7                       | 15.3                       | 20.7                       | 27.0                       |
| RL-1386-4-27     | 27                         | .007                  | 14                                   | 2.3                       | 6.8                        | 9.9                        | 13.5                       | 18.0                       | 23.4                       |
| RL-1386-4-33     | 33                         | .008                  | 14                                   | 2.1                       | 5.9                        | 8.8                        | 11.7                       | 15.3                       | 20.7                       |
| RL-1386-4-39     | 39                         | .010                  | 14                                   | 1.9                       | 5.2                        | 7.9                        | 10.8                       | 14.4                       | 18.9                       |
| RL-1386-4-47     | 47                         | .011                  | 14                                   | 1.7                       | 4.8                        | 7.2                        | 9.9                        | 12.6                       | 17.1                       |
| RL-1386-4-56     | 56                         | .012                  | 14                                   | 1.5                       | 4.3                        | 6.6                        | 9.0                        | 11.7                       | 15.3                       |
| RL-1386-4-68     | 68                         | .013                  | 14                                   | 1.4                       | 4.1                        | 6.0                        | 8.3                        | 10.8                       | 14.4                       |
| RL-1386-4-82     | 82                         | .014                  | 14                                   | 1.3                       | 3.6                        | 5.4                        | 7.4                        | 9.0                        | 12.6                       |
| RL-1386-4-100    | 100                        | .014                  | 14                                   | 1.2                       | 3.2                        | 4.9                        | 6.7                        | 8.8                        | 10.8                       |
| RL-1386-4-120    | 120                        | .017                  | 14                                   | 1.1                       | 2.9                        | 4.4                        | 6.1                        | 8.0                        | 9.9                        |
| RL-1386-4-150    | 150                        | .018                  | 14                                   | .90                       | 2.6                        | 4.0                        | 5.5                        | 7.2                        | 9.0                        |
| RL-1386-4-180    | 180                        | .022                  | 14                                   | .86                       | 2.3                        | 3.6                        | 5.0                        | 6.5                        | 8.6                        |
| RL-1386-4-220    | 220                        | .024                  | 14                                   | .78                       | 2.2                        | 3.2                        | 4.5                        | 5.9                        | 7.7                        |
| RL-1386-4-270    | 270                        | .026                  | 14                                   | .71                       | 1.9                        | 2.9                        | 4.1                        | 5.3                        | 7.0                        |
| RL-1386-4-330    | 330                        | .029                  | 14                                   | .63                       | 1.7                        | 2.6                        | 3.6                        | 4.8                        | 6.3                        |
| RL-1386-4-390    | 390                        | .034                  | 14                                   | .58                       | 1.6                        | 2.4                        | 3.3                        | 4.4                        | 5.8                        |
| RL-1386-4-470    | 470                        | .036                  | 14                                   | .54                       | 1.4                        | 2.3                        | 3.1                        | 4.1                        | 5.3                        |
| RL-1386-4-560    | 560                        | .042                  | 14                                   | .49                       | 1.4                        | 2.1                        | 2.8                        | 3.7                        | 4.9                        |
| RL-1386-4-680    | 680                        | .056                  | 9                                    | .44                       | 1.2                        | 1.8                        | 2.5                        | 3.3                        | 4.3                        |
| RL-1386-4-820    | 820                        | .064                  | 9                                    | .40                       | 1.1                        | 1.6                        | 2.3                        | 3.0                        | 4.0                        |
| RL-1386-4-1000   | 1000                       | .090                  | 9                                    | .36                       | 1.0                        | 1.5                        | 2.1                        | 2.7                        | 3.6                        |
| RL-1386-4-1200   | 1200                       | .115                  | 7                                    | .33                       | .90                        | 1.4                        | 1.9                        | 2.5                        | 3.3                        |
| RL-1386-4-1500   | 1500                       | .123                  | 7                                    | .29                       | .81                        | 1.2                        | 1.6                        | 2.2                        | 2.7                        |
| RL-1386-4-1800   | 1800                       | .149                  | 7                                    | .26                       | .75                        | 1.1                        | 1.5                        | 2.0                        | 2.6                        |
| RL-1386-4-2200   | 2200                       | .164                  | 7                                    | .24                       | .68                        | .99                        | 1.4                        | 1.8                        | 2.3                        |
| RL-1386-4-2700   | 2700                       | .229                  | 5                                    | .22                       | .61                        | .90                        | 1.3                        | 1.6                        | 2.2                        |
| RL-1386-4-3300   | 3300                       | .252                  | 5                                    | .20                       | .56                        | .84                        | 1.1                        | 1.4                        | 2.0                        |
| RL-1386-4-3900   | 3900                       | .318                  | 4.5                                  | .18                       | .51                        | .76                        | .99                        | 1.4                        | 1.8                        |
| RL-1386-4-4700   | 4700                       | .336                  | 4.5                                  | .16                       | .46                        | .68                        | .90                        | 1.2                        | 1.6                        |
| RL-1386-4-5600   | 5600                       | .348                  | 4.5                                  | .15                       | .42                        | .63                        | .87                        | 1.1                        | 1.4                        |



**RENCO ELECTRONICS, INC.**

✉ 595 International Place, Rockledge, FL 32955-4200 USA

☎ (321) 637-1000 • Toll Free Engineering Hot line 800-645-5828

📠 Fax: (321) 637-1600 🌐 Web Site: [www.rencousa.com](http://www.rencousa.com) ✉ E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)

| <b>RL-1386-5</b> |                            |                       |                                      |                           |                            |                            |                            |                            |                            |
|------------------|----------------------------|-----------------------|--------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Renco Part No.   | L @ 0<br>Amps D.C.<br>(μH) | Max<br>RDC.<br>(ohms) | Suggested<br>Rated Current<br>(Amps) | 0% L<br>Drop<br>(DC Amps) | 10% L<br>Drop<br>(DC Amps) | 20% L<br>Drop<br>(DC Amps) | 30% L<br>Drop<br>(DC Amps) | 40% L<br>Drop<br>(DC Amps) | 50% L<br>Drop<br>(DC Amps) |
| RL-1386-5-1.0    | 1.0                        | .001                  | 22                                   | 19.9                      | 55.8                       | 83.7                       | 115.2                      | 151.2                      | 199.4                      |
| RL-1386-5-2.2    | 2.2                        | .002                  | 22                                   | 13.2                      | 37.2                       | 55.8                       | 77.0                       | 100.8                      | 132.8                      |
| RL-1386-5-3.9    | 3.9                        | .002                  | 22                                   | 9.9                       | 27.9                       | 41.4                       | 57.8                       | 75.6                       | 99.6                       |
| RL-1386-5-5.6    | 5.6                        | .002                  | 22                                   | 7.9                       | 22.3                       | 33.3                       | 46.3                       | 60.3                       | 79.7                       |
| RL-1386-5-10     | 10                         | .003                  | 22                                   | 6.6                       | 18.5                       | 27.9                       | 38.5                       | 50.4                       | 66.4                       |
| RL-1386-5-12     | 12                         | .003                  | 22                                   | 5.7                       | 15.9                       | 23.4                       | 33.0                       | 43.2                       | 56.9                       |
| RL-1386-5-15     | 15                         | .003                  | 22                                   | 5.0                       | 14.0                       | 20.7                       | 28.9                       | 37.8                       | 49.8                       |
| RL-1386-5-18     | 18                         | .004                  | 22                                   | 4.4                       | 12.3                       | 18.3                       | 25.7                       | 33.3                       | 44.3                       |
| RL-1386-5-22     | 22                         | .004                  | 22                                   | 4.0                       | 11.2                       | 16.2                       | 23.1                       | 29.7                       | 39.9                       |
| RL-1386-5-27     | 27                         | .004                  | 22                                   | 3.2                       | 9.3                        | 13.5                       | 19.3                       | 25.2                       | 33.2                       |
| RL-1386-5-33     | 33                         | .005                  | 22                                   | 3.1                       | 8.6                        | 12.6                       | 17.7                       | 22.5                       | 30.6                       |
| RL-1386-5-39     | 39                         | .005                  | 22                                   | 2.8                       | 7.9                        | 11.7                       | 16.5                       | 21.6                       | 28.4                       |
| RL-1386-5-47     | 47                         | .006                  | 22                                   | 2.4                       | 6.9                        | 9.9                        | 14.4                       | 18.9                       | 24.8                       |
| RL-1386-5-56     | 56                         | .007                  | 22                                   | 2.3                       | 6.5                        | 9.0                        | 13.6                       | 17.1                       | 23.4                       |
| RL-1386-5-68     | 68                         | .007                  | 22                                   | 2.1                       | 5.9                        | 8.1                        | 12.2                       | 15.3                       | 21.0                       |
| RL-1386-5-82     | 82                         | .008                  | 22                                   | 11.9                      | 5.3                        | 7.2                        | 11.0                       | 14.4                       | 18.9                       |
| RL-1386-5-100    | 100                        | .010                  | 22                                   | 1.6                       | 4.6                        | 6.3                        | 9.6                        | 12.6                       | 16.6                       |
| RL-1386-5-120    | 120                        | .011                  | 22                                   | 1.5                       | 4.2                        | 6.3                        | 8.8                        | 10.8                       | 15.3                       |
| RL-1386-5-150    | 150                        | .012                  | 22                                   | 1.4                       | 4.0                        | 5.4                        | 8.2                        | 10.8                       | 14.2                       |
| RL-1386-5-180    | 180                        | .014                  | 22                                   | 1.3                       | 3.6                        | 5.4                        | 7.4                        | 9.0                        | 12.8                       |
| RL-1386-5-220    | 220                        | .016                  | 22                                   | 1.2                       | 3.2                        | 4.5                        | 6.8                        | 8.1                        | 11.7                       |
| RL-1386-5-270    | 270                        | .017                  | 22                                   | 1.0                       | 2.8                        | 3.6                        | 5.9                        | 7.2                        | 10.2                       |
| RL-1386-5-330    | 330                        | .019                  | 22                                   | .90                       | 2.6                        | 3.6                        | 5.5                        | 7.2                        | 9.5                        |
| RL-1386-5-390    | 390                        | .023                  | 22                                   | .81                       | 2.3                        | 3.6                        | 5.0                        | 6.3                        | 8.6                        |
| RL-1386-5-470    | 470                        | .039                  | 18                                   | .80                       | 2.2                        | 3.3                        | 4.6                        | 6.0                        | 7.7                        |
| RL-1386-5-560    | 560                        | .040                  | 18                                   | .69                       | 1.9                        | 2.9                        | 4.0                        | 5.1                        | 6.8                        |
| RL-1386-5-680    | 680                        | .042                  | 11                                   | .63                       | 1.8                        | 2.7                        | 3.6                        | 4.8                        | 6.1                        |
| RL-1386-5-820    | 820                        | .048                  | 11                                   | .58                       | 1.6                        | 2.4                        | 3.3                        | 4.3                        | 5.8                        |
| RL-1386-5-1000   | 1000                       | .057                  | 11                                   | .51                       | 1.4                        | 2.1                        | 2.9                        | 3.9                        | 5.0                        |
| RL-1386-5-1200   | 1200                       | .091                  | 7                                    | .47                       | 1.3                        | 1.9                        | 2.7                        | 3.5                        | 4.7                        |
| RL-1386-5-1500   | 1500                       | .103                  | 7                                    | .42                       | 1.2                        | 1.7                        | 2.4                        | 3.2                        | 4.2                        |
| RL-1386-5-1800   | 1800                       | .113                  | 7                                    | .39                       | 1.1                        | 1.6                        | 2.2                        | 2.9                        | 3.9                        |
| RL-1386-5-2200   | 2200                       | .130                  | 7                                    | .34                       | 1.0                        | 1.4                        | 2.0                        | 2.5                        | 3.4                        |
| RL-1386-5-2700   | 2700                       | .145                  | 7                                    | .31                       | .87                        | 1.3                        | 1.8                        | 2.3                        | 3.1                        |
| RL-1386-5-3300   | 3300                       | .193                  | 5                                    | .28                       | .79                        | 1.2                        | 1.6                        | 2.2                        | 2.8                        |
| RL-1386-5-3900   | 3900                       | .210                  | 5                                    | .26                       | .79                        | 1.1                        | 1.4                        | 1.9                        | 2.5                        |
| RL-1386-5-4700   | 4700                       | .237                  | 5                                    | .23                       | .65                        | .40                        | 1.4                        | 1.7                        | 2.3                        |
| RL-1386-5-5600   | 5600                       | .315                  | 5                                    | .21                       | .59                        | .90                        | 1.2                        | 1.6                        | 2.1                        |

Tests for SWINGDUCTOR™

0 to 200 μH  
200 μH to 2 mH  
2 mH to 20 mH  
20 mH to 200 mH  
200 mH to 20H  
20 H to 200H

100mAAC at 1 KC  
10mA AC at 1 KC  
1mA AC at 1 KC  
100μA AC at 1 KC  
10μAAC at 1 KC  
1μAAC at 1 KC

TEST AT ZERO DC BIAS



**RENCO ELECTRONICS, INC.**

595 International Place, Rockledge, FL 32955-4200 USA

(321) 637-1000 • Toll Free Engineering Hot line 800-645-5828

Fax: (321) 637-1600 Web Site: [www.rencousa.com](http://www.rencousa.com) E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)