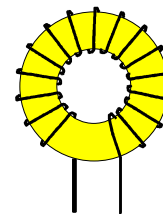


# DC Energy Storage Inductors

**IRON POWDER MATERIAL**  
(Hydrogen Reduced)

Well Suited for Switch Mode Power  
Supplies and Regulator Applications.



Single Layer Wound

Leads are Pre-Tinned

Custom Versions Available

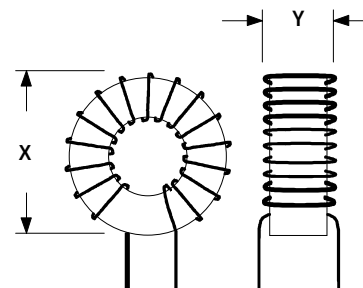
Vertical Base Mounting Available

Shrink Tubing Optional

Varnish Finish Optional

Semi-Encapsulated Versions  
or Clip Mount Package Style  
Available for some models

Where  $I_{max}$  is greater than  
IDC @ 50%, Inductors can be used  
for Swing requirements producing  
a minimum Swing of 2:1



*Bare Coil Size Chart*

| Size Code | Dim. in inches |       |
|-----------|----------------|-------|
|           | X              | Y     |
| 1         | 0.515          | 0.235 |
| 2         | 0.575          | 0.265 |
| 3         | 0.890          | 0.340 |
| 4         | 1.150          | 0.530 |
| 5         | 1.400          | 0.535 |
| 6         | 1.520          | 0.510 |
| 7         | 1.950          | 0.820 |
| 8         | 2.150          | 0.660 |
| 9         | 2.400          | 0.670 |

Dimensions are nominal, based upon largest wire size used with each toroid size. Smaller wire will result in slightly lower dimensions.

***Clip Mount <sup>(1)</sup> Dimensions***  
***Refer to Drawing and***  
***Dimensions from Page 7.***

| Part <sup>(1)</sup><br>Number | L <sup>(2)</sup><br>typ.<br>( $\mu$ H) | IDC <sup>(3)</sup><br>20%<br>Amps | IDC <sup>(4)</sup><br>50%<br>Amps | I <sup>(5)</sup><br>max.<br>Amps | Energy<br>min. <sup>(6)</sup><br>( $\mu$ J) | DCR<br>nom.<br>(m $\Omega$ ) | Size<br>Code | Lead<br>Size<br>AWG |
|-------------------------------|----------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------------------|------------------------------|--------------|---------------------|
| L-14400                       | 56.3                                   | 1.15                              | 2.73                              | 1.38                             | 30                                          | 183                          | 1            | 28                  |
| L-14401                       | 33.3                                   | 1.49                              | 3.55                              | 1.97                             | 30                                          | 89                           | 1            | 26                  |
| L-14402 (K)                   | 17.9                                   | 2.04                              | 4.85                              | 2.81                             | 30                                          | 41                           | 1            | 24                  |
| L-14403                       | 76.0                                   | 1.11                              | 2.64                              | 1.38                             | 38                                          | 255                          | 2            | 28                  |
| L-14404                       | 45.2                                   | 1.44                              | 3.43                              | 1.97                             | 38                                          | 124                          | 2            | 26                  |
| L-14405 (K)                   | 25.9                                   | 1.90                              | 4.53                              | 2.81                             | 38                                          | 59                           | 2            | 24                  |
| L-14406                       | 231.9                                  | 1.21                              | 2.88                              | 1.97                             | 136                                         | 351                          | 3            | 26                  |
| L-14407                       | 139.2                                  | 1.56                              | 3.72                              | 2.81                             | 136                                         | 170                          | 3            | 24                  |
| L-14408 (K)                   | 81.1                                   | 2.05                              | 4.87                              | 4.00                             | 136                                         | 82                           | 3            | 22                  |
| L-14409 (K)                   | 47.1                                   | 2.68                              | 6.39                              | 5.70                             | 136                                         | 39                           | 3            | 20                  |
| L-14410 (K)                   | 36.1                                   | 3.07                              | 7.30                              | 6.81                             | 136                                         | 27                           | 3            | 19                  |
| L-14411                       | 671.9                                  | 1.28                              | 3.04                              | 1.97                             | 438                                         | 598                          | 4            | 26                  |
| L-14412                       | 405.1                                  | 1.64                              | 3.91                              | 2.81                             | 438                                         | 290                          | 4            | 24                  |
| L-14413 (K)                   | 241.9                                  | 2.13                              | 5.06                              | 4.00                             | 438                                         | 142                          | 4            | 22                  |
| L-14414 (K)                   | 141.5                                  | 2.78                              | 6.62                              | 5.70                             | 438                                         | 68                           | 4            | 20                  |
| L-14415 (K)                   | 107.5                                  | 3.19                              | 7.59                              | 6.81                             | 438                                         | 47                           | 4            | 19                  |
| L-14416                       | 715.7                                  | 1.47                              | 3.50                              | 2.81                             | 620                                         | 469                          | 5            | 24                  |
| L-14417                       | 443.6                                  | 1.87                              | 4.45                              | 4.00                             | 620                                         | 232                          | 5            | 22                  |
| L-14418                       | 272.5                                  | 2.39                              | 5.68                              | 5.70                             | 620                                         | 114                          | 5            | 20                  |
| L-14419                       | 210.7                                  | 2.71                              | 6.46                              | 6.81                             | 620                                         | 80                           | 5            | 19                  |
| L-14420                       | 156.8                                  | 3.14                              | 7.49                              | 8.11                             | 620                                         | 55                           | 5            | 18                  |
| L-14421                       | 529.2                                  | 1.82                              | 4.33                              | 4.00                             | 700                                         | 277                          | 6            | 22                  |
| L-14422                       | 316.9                                  | 2.35                              | 5.59                              | 5.70                             | 700                                         | 134                          | 6            | 20                  |
| L-14423                       | 252.3                                  | 2.63                              | 6.27                              | 6.81                             | 700                                         | 95                           | 6            | 19                  |
| L-14424                       | 195.1                                  | 2.99                              | 7.13                              | 8.11                             | 700                                         | 66                           | 6            | 18                  |
| L-14425                       | 145.2                                  | 3.47                              | 8.27                              | 9.70                             | 700                                         | 45                           | 6            | 17                  |
| L-14426                       | 876.1                                  | 2.60                              | 6.19                              | 5.70                             | 2368                                        | 207                          | 7            | 20                  |
| L-14427                       | 670.8                                  | 2.97                              | 7.07                              | 6.81                             | 2368                                        | 144                          | 7            | 19                  |
| L-14428                       | 530.0                                  | 3.34                              | 7.96                              | 8.11                             | 2368                                        | 102                          | 7            | 18                  |
| L-14429                       | 405.8                                  | 3.82                              | 9.09                              | 9.70                             | 2368                                        | 70                           | 7            | 17                  |
| L-14430                       | 312.5                                  | 4.35                              | 10.36                             | 11.60                            | 2368                                        | 49                           | 7            | 16                  |
| L-14431                       | 696.3                                  | 2.50                              | 5.95                              | 6.81                             | 1737                                        | 196                          | 8            | 19                  |
| L-14432                       | 545.5                                  | 2.82                              | 6.72                              | 8.11                             | 1737                                        | 137                          | 8            | 18                  |
| L-14433                       | 425.4                                  | 3.19                              | 7.61                              | 9.70                             | 1737                                        | 96                           | 8            | 17                  |
| L-14434                       | 331.2                                  | 3.62                              | 8.62                              | 11.60                            | 1737                                        | 67                           | 8            | 16                  |
| L-14435                       | 258.4                                  | 4.10                              | 9.76                              | 13.80                            | 1737                                        | 47                           | 8            | 15                  |
| L-14436                       | 758.9                                  | 2.77                              | 6.60                              | 8.11                             | 2334                                        | 172                          | 9            | 18                  |
| L-14437                       | 581.0                                  | 3.17                              | 7.54                              | 9.70                             | 2334                                        | 119                          | 9            | 17                  |
| L-14438                       | 466.6                                  | 3.54                              | 8.42                              | 11.60                            | 2334                                        | 85                           | 9            | 16                  |
| L-14439                       | 352.8                                  | 4.07                              | 9.68                              | 13.80                            | 2334                                        | 58                           | 9            | 15                  |
| L-14440                       | 275.3                                  | 4.60                              | 10.96                             | 16.60                            | 2334                                        | 41                           | 9            | 14                  |

- 1) Selected Parts available in Clip Mount Style. Example: L-14402K
- 2) Typical Inductance with no DC. Tolerance of  $\pm 10\%$ .  
See Specific data sheets for test conditions.
- 3) Current which will produce a 20% reduction in L
- 4) Current which will produce a 50% reduction in L
- 5) Maximum DC current. This value is for a 40°C temperature rise due to copper loss, with AC flux density kept to 10 Gauss or less. (This typically represents a current ripple of less than 1%)
- 6) Energy storage capability of component in micro Joules.  
Value is for 20% reduction in permeability.

Specifications are subject to change without notice

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