

### Choke Coils

Series: **Pin terminal**

Type: **06D, 09D, 10D, 12D, 16B, 18B  
10E, 12E, 15E, 18E**

Japan  
Singapore  
Indonesia



Pin terminal inductors featuring small size and high performance

Industrial Property: Patents 1 (pending)

#### ■ Features

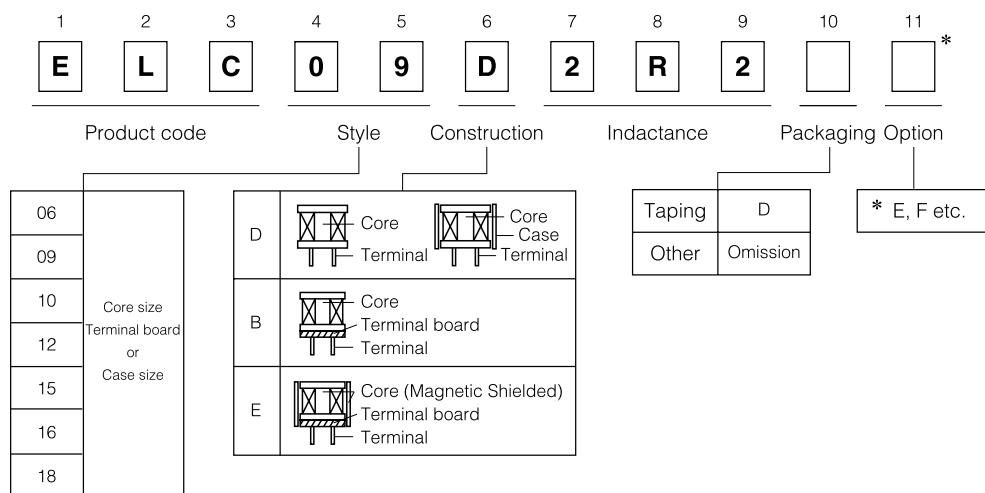
- Adoption of High  $\mu$  and High Bm ferrite cores
- Wide inductor range
- Magnetic shield type (E Type)

#### ■ Recommended Applications

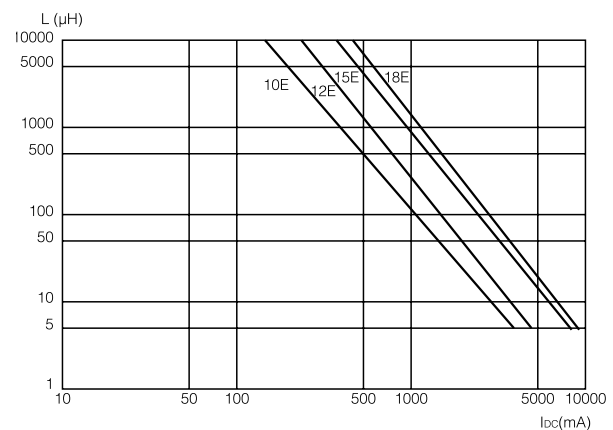
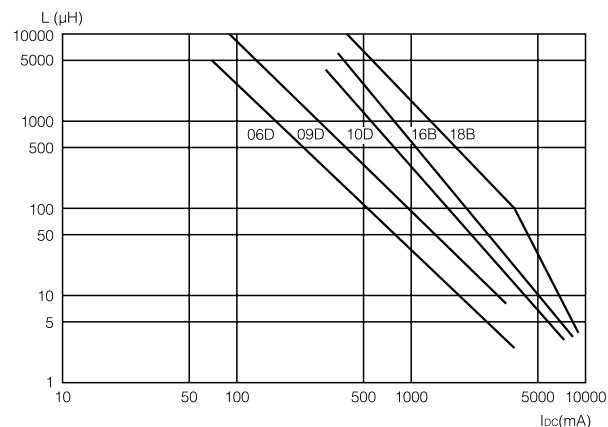
- CTV, VTR, Audio, PC, Facsimiles



#### ■ Explanation of Part Numbers

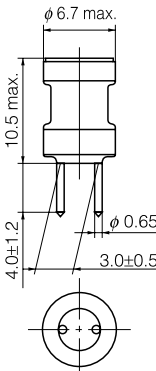
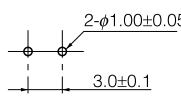
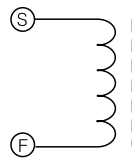


#### ■ Available I-L Characteristics



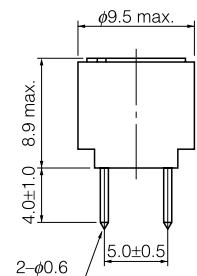
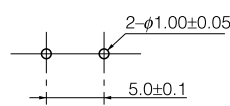
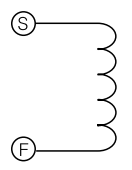
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

## ■ Examples Type 06D

|                                                                                                                                                                                                                                                                                                                                                                                                                          | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.( $\Omega$ )<br>[at 20 °C]<br>**(Tol.±30 %)<br>(Tol.±20 %) | *IDC.<br>[at 20 °C]<br>(A)max. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------|------------------|---------------------|----------------------------------------------------------------|--------------------------------|
| <div>[Dimensions in mm]<br/>(not to scale)</div> <div></div> <div>Recommended PWB<br/>piercing plan</div> <div></div> <div>Connection Schematic</div> <div></div> | ELC06D2R2E | 2.2                      | ±20              | 10                  | **0.026                                                        | 3.400                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D2R7E | 2.7                      |                  |                     | **0.028                                                        | 3.200                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D3R3E | 3.3                      |                  |                     | **0.027                                                        | 3.000                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D3R9E | 3.9                      |                  |                     | **0.030                                                        | 2.800                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D4R7E | 4.7                      |                  |                     | **0.033                                                        | 2.600                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D5R6E | 5.6                      |                  |                     | **0.035                                                        | 2.400                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D6R8E | 6.8                      |                  |                     | 0.041                                                          | 2.000                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D8R2E | 8.2                      |                  |                     | 0.048                                                          | 1.800                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D100E | 10.0                     |                  |                     | 0.052                                                          | 1.700                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D120E | 12.0                     |                  |                     | 0.054                                                          | 1.650                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D150E | 15.0                     |                  |                     | 0.059                                                          | 1.500                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D180E | 18.0                     |                  |                     | 0.065                                                          | 1.250                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D220E | 22.0                     | ±10              |                     | 0.076                                                          | 1.200                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D270E | 27.0                     |                  |                     | 0.083                                                          | 0.950                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D330E | 33.0                     |                  |                     | 0.100                                                          | 0.900                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D390E | 39.0                     |                  |                     | 0.105                                                          | 0.850                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D470E | 47.0                     |                  |                     | 0.120                                                          | 0.800                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D560E | 56.0                     |                  |                     | 0.140                                                          | 0.750                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D680E | 68.0                     |                  |                     | 0.150                                                          | 0.700                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D820E | 82.0                     |                  |                     | 0.210                                                          | 0.550                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D101E | 100.0                    |                  |                     | 0.230                                                          | 0.500                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D121E | 120.0                    |                  |                     | 0.260                                                          | 0.490                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D151E | 150.0                    |                  |                     | 0.370                                                          | 0.450                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D181E | 180.0                    |                  |                     | 0.420                                                          | 0.400                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D221E | 220.0                    |                  |                     | 0.550                                                          | 0.360                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D271E | 270.0                    |                  |                     | 0.650                                                          | 0.350                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D331E | 330.0                    |                  |                     | 0.740                                                          | 0.300                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D391E | 390.0                    |                  |                     | 0.950                                                          | 0.270                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D471E | 470.0                    |                  |                     | 1.080                                                          | 0.240                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D561E | 560.0                    |                  |                     | 1.220                                                          | 0.220                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D681E | 680.0                    |                  |                     | 1.590                                                          | 0.210                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D821E | 820.0                    |                  |                     | 1.760                                                          | 0.180                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC06D102E | 1000.0                   |                  |                     | 2.490                                                          | 0.160                          |
| ELC06D122E                                                                                                                                                                                                                                                                                                                                                                                                               | 1200.0     | 2.760                    |                  |                     | 0.150                                                          |                                |
| ELC06D152E                                                                                                                                                                                                                                                                                                                                                                                                               | 1500.0     | 3.240                    |                  |                     | 0.130                                                          |                                |
| ELC06D182E                                                                                                                                                                                                                                                                                                                                                                                                               | 1800.0     | 4.560                    |                  |                     | 0.120                                                          |                                |
| ELC06D222E                                                                                                                                                                                                                                                                                                                                                                                                               | 2200.0     | 5.180                    | 0.110            |                     |                                                                |                                |
| ELC06D272E                                                                                                                                                                                                                                                                                                                                                                                                               | 2700.0     | 6.080                    | 0.100            |                     |                                                                |                                |
| ELC06D332E                                                                                                                                                                                                                                                                                                                                                                                                               | 3300.0     | 8.800                    | 0.100            |                     |                                                                |                                |
| ELC06D392E                                                                                                                                                                                                                                                                                                                                                                                                               | 3900.0     | 9.470                    | 0.080            |                     |                                                                |                                |
| ELC06D472E                                                                                                                                                                                                                                                                                                                                                                                                               | 4700.0     | 10.900                   | 0.075            |                     |                                                                |                                |
| ELC06D562E                                                                                                                                                                                                                                                                                                                                                                                                               | 5600.0     | 12.300                   | 0.070            |                     |                                                                |                                |

\* Allowable DC Current: Smaller current value either when the inductance of -10 %max. changed, or when the temperature of 45 k max. risen.

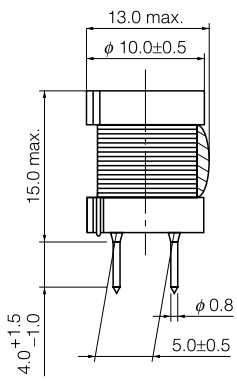
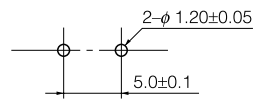
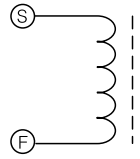
## ■ Examples Type 09D

|                                                                                                                                                                                                                                                                                                                                                                                                                                    | Part No.    | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.(Ω)<br>[at 20 °C]<br>(Tol.±20 %) | *IDC.<br>[at 20 °C]<br>(A)max. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|------------------|---------------------|--------------------------------------|--------------------------------|
| <div>[Dimensions in mm]<br/>(not to scale)</div> <div></div> <div></div> <div>Recommended PWB<br/>piercing plan</div> <div><div>Connection Schematic</div><div></div></div> | ELC09D2R2□F | 2.2                | ±20              | 10                  | 0.012                                | 3.50                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D2R7□F | 2.7                |                  |                     | 0.013                                | 3.30                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D3R3□F | 3.3                |                  |                     | 0.015                                | 3.20                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D3R9□F | 3.9                |                  |                     | 0.016                                | 3.10                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D4R7□F | 4.7                |                  |                     | 0.018                                | 3.00                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D5R6□F | 5.6                |                  |                     | 0.019                                | 2.90                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D6R8□F | 6.8                |                  |                     | 0.021                                | 2.80                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D8R2□F | 8.2                |                  |                     | 0.024                                | 2.60                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D100□F | 10.0               |                  |                     | 0.027                                | 2.50                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D120□F | 12.0               |                  |                     | 0.031                                | 2.30                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D150□F | 15.0               |                  |                     | 0.035                                | 2.10                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D180□F | 18.0               |                  |                     | 0.038                                | 2.00                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D220□F | 22.0               | ±10              |                     | 0.051                                | 1.80                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D270□F | 27.0               |                  |                     | 0.058                                | 1.60                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D330□F | 33.0               |                  |                     | 0.081                                | 1.40                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D390□F | 39.0               |                  |                     | 0.087                                | 1.30                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D470□F | 47.0               |                  |                     | 0.110                                | 1.20                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D560□F | 56.0               |                  |                     | 0.130                                | 1.10                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D680□F | 68.0               |                  |                     | 0.140                                | 1.00                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D820□F | 82.0               |                  |                     | 0.160                                | 0.90                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D101□F | 100.0              |                  |                     | 0.200                                | 0.82                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D121□F | 120.0              |                  |                     | 0.250                                | 0.77                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D151□F | 150.0              |                  |                     | 0.320                                | 0.74                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D181□F | 180.0              |                  |                     | 0.360                                | 0.61                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D221□F | 220.0              |                  |                     | 0.410                                | 0.58                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D271□F | 270.0              |                  |                     | 0.500                                | 0.52                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D331□F | 330.0              |                  |                     | 0.650                                | 0.49                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D391□F | 390.0              |                  |                     | 0.860                                | 0.46                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D471□F | 470.0              |                  |                     | 0.980                                | 0.39                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D561□F | 560.0              |                  |                     | 1.100                                | 0.36                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D681□F | 680.0              |                  |                     | 1.400                                | 0.34                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D821□F | 820.0              |                  |                     | 1.600                                | 0.30                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D102□F | 1000.0             |                  |                     | 2.100                                | 0.28                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D122□F | 1200.0             |                  |                     | 2.400                                | 0.23                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D152□F | 1500.0             |                  |                     | 2.800                                | 0.21                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D182□F | 1800.0             |                  |                     | 3.800                                | 0.19                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D222□F | 2200.0             |                  |                     | 4.400                                | 0.17                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D272□F | 2700.0             |                  |                     | 6.100                                | 0.16                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D332□F | 3300.0             |                  |                     | 7.000                                | 0.14                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D392□F | 3900.0             |                  |                     | 8.000                                | 0.13                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D472□F | 4700.0             |                  |                     | 11.200                               | 0.12                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D562□F | 5600.0             |                  |                     | 12.600                               | 0.11                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D682□F | 6800.0             |                  |                     | 14.400                               | 0.10                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D822□F | 8200.0             |                  |                     | 16.600                               | 0.09                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | ELC09D103□F | 10000.0            |                  |                     | 18.800                               | 0.08                           |

\*Allowable DC Current:Smaller current value either when the inductance of -10 %max. changed, or when the temperaturer of 45k max. risen.

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Should a safety concern arise regarding this product, please be sure to contact us immediately.

## ■ Examples Type 10D

|                                                                                                                                                                                                                                                                                                                                                                             | Part No.   | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.(Ω)<br>[at 20°C]<br>(Tol.±20 %) | *IDC.<br>[at 20°C]<br>(A)max. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|------------------|---------------------|-------------------------------------|-------------------------------|
| <p>[Dimensions in mm]<br/>(not to scale)</p>  <p>Recommended PWB<br/>piercing plan</p>  <p>Connection Schematic</p>  | ELC10D2R2E | 2.2                | ±20              | 10                  | 0.014                               | 5.90                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D2R7E | 2.7                |                  |                     | 0.015                               | 5.50                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D3R3E | 3.3                |                  |                     | 0.016                               | 5.20                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D3R9E | 3.9                |                  |                     | 0.018                               | 4.80                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D4R7E | 4.7                |                  |                     | 0.019                               | 4.60                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D5R6E | 5.6                |                  |                     | 0.021                               | 4.30                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D6R8E | 6.8                |                  |                     | 0.022                               | 4.20                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D8R2E | 8.2                |                  |                     | 0.024                               | 4.00                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D100E | 10.0               |                  |                     | 0.026                               | 3.90                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D120E | 12.0               |                  |                     | 0.028                               | 3.80                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D150E | 15.0               |                  |                     | 0.033                               | 3.50                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D180E | 18.0               |                  |                     | 0.036                               | 3.40                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D220E | 22.0               | ±10              |                     | 0.040                               | 3.20                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D270E | 27.0               |                  |                     | 0.044                               | 3.00                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D330E | 33.0               |                  |                     | 0.051                               | 2.80                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D390E | 39.0               |                  |                     | 0.054                               | 2.70                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D470E | 47.0               |                  |                     | 0.060                               | 2.50                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D560E | 56.0               |                  |                     | 0.067                               | 2.30                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D680E | 68.0               |                  |                     | 0.075                               | 2.10                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D820E | 82.0               |                  |                     | 0.095                               | 1.80                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D101E | 100.0              |                  |                     | 0.110                               | 1.70                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D121E | 120.0              |                  |                     | 0.120                               | 1.60                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D151E | 150.0              |                  |                     | 0.160                               | 1.40                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D181E | 180.0              |                  |                     | 0.180                               | 1.30                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D221E | 220.0              |                  |                     | 0.210                               | 1.10                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D271E | 270.0              |                  |                     | 0.280                               | 1.00                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D331E | 330.0              |                  |                     | 0.320                               | 0.90                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D391E | 390.0              |                  |                     | 0.400                               | 0.80                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D471E | 470.0              |                  |                     | 0.450                               | 0.70                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D561E | 560.0              |                  |                     | 0.560                               | 0.68                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D681E | 680.0              |                  |                     | 0.660                               | 0.64                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D821E | 820.0              |                  |                     | 0.800                               | 0.55                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D102E | 1000.0             |                  |                     | 1.000                               | 0.50                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D122E | 1200.0             |                  |                     | 1.200                               | 0.45                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D152E | 1500.0             |                  |                     | 1.500                               | 0.42                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D182E | 1800.0             |                  |                     | 1.800                               | 0.40                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D222E | 2200.0             |                  |                     | 2.100                               | 0.36                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D272E | 2700.0             |                  |                     | 2.700                               | 0.32                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D332E | 3300.0             |                  |                     | 3.200                               | 0.28                          |
|                                                                                                                                                                                                                                                                                                                                                                             | ELC10D392E | 3900.0             |                  |                     | 3.500                               | 0.26                          |

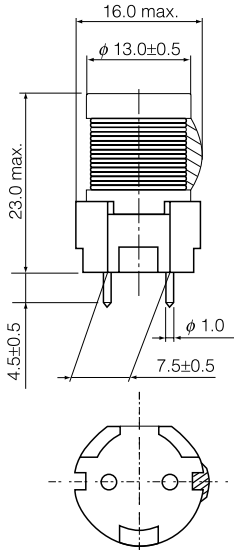
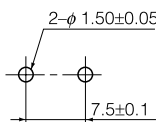
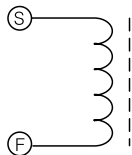
\*Allowable DC Current: Smaller current value either when the inductance of -10 % max. changed, or when the temperature of 45k max. risen.

## ■ Examples Type 12D

|                                                                                                                   | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.( $\Omega$ )<br>[at 20 °C]<br>(Tol. $\pm 20$ %) | *IDC.<br>[at 20 °C]<br>(A)max. |
|-------------------------------------------------------------------------------------------------------------------|------------|--------------------------|------------------|---------------------|-----------------------------------------------------|--------------------------------|
| <p>[Dimensions in mm]<br/>(not to scale)</p> <p>Recommended PWB<br/>piercing plan</p> <p>Connection Schematic</p> | ELC12D101E | 100                      | $\pm 10$         | 10                  | 0.150                                               | 1.90                           |
|                                                                                                                   | ELC12D121E | 120                      |                  |                     | 0.170                                               | 1.78                           |
|                                                                                                                   | ELC12D151E | 150                      |                  |                     | 0.190                                               | 1.67                           |
|                                                                                                                   | ELC12D181E | 180                      |                  |                     | 0.210                                               | 1.58                           |
|                                                                                                                   | ELC12D221E | 220                      |                  |                     | 0.230                                               | 1.55                           |
|                                                                                                                   | ELC12D271E | 270                      |                  |                     | 0.270                                               | 1.44                           |
|                                                                                                                   | ELC12D331E | 330                      |                  |                     | 0.300                                               | 1.34                           |
|                                                                                                                   | ELC12D391E | 390                      |                  |                     | 0.330                                               | 1.32                           |
|                                                                                                                   | ELC12D471E | 470                      |                  |                     | 0.380                                               | 1.25                           |
|                                                                                                                   | ELC12D561E | 560                      |                  |                     | 0.420                                               | 1.15                           |
|                                                                                                                   | ELC12D681E | 680                      |                  |                     | 0.460                                               | 0.98                           |
|                                                                                                                   | ELC12D821E | 820                      |                  |                     | 0.650                                               | 0.94                           |
|                                                                                                                   | ELC12D102E | 1000                     |                  |                     | 0.720                                               | 0.87                           |
|                                                                                                                   | ELC12D122E | 1200                     |                  |                     | 0.830                                               | 0.86                           |
|                                                                                                                   | ELC12D152E | 1500                     |                  |                     | 1.270                                               | 0.64                           |
|                                                                                                                   | ELC12D182E | 1800                     |                  |                     | 1.330                                               | 0.63                           |
|                                                                                                                   | ELC12D222E | 2200                     |                  |                     | 1.500                                               | 0.60                           |
|                                                                                                                   | ELC12D272E | 2700                     |                  |                     | 1.890                                               | 0.54                           |
|                                                                                                                   | ELC12D332E | 3300                     |                  |                     | 2.370                                               | 0.48                           |
|                                                                                                                   | ELC12D392E | 3900                     |                  |                     | 2.830                                               | 0.45                           |
|                                                                                                                   | ELC12D472E | 4700                     |                  |                     | 3.190                                               | 0.41                           |
|                                                                                                                   | ELC12D562E | 5600                     |                  |                     | 4.080                                               | 0.34                           |
|                                                                                                                   | ELC12D682E | 6800                     |                  |                     | 5.740                                               | 0.29                           |
|                                                                                                                   | ELC12D822E | 8200                     |                  |                     | 6.340                                               | 0.28                           |
|                                                                                                                   | ELC12D103E | 10000                    |                  |                     | 7.200                                               | 0.27                           |

\*Allowable DC Current: Smaller current value either when the inductance of  $-10$  % max. changed, or when the temperature of  $45$  K max. rises.

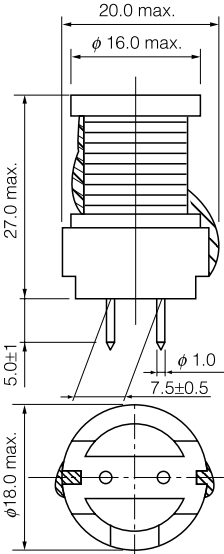
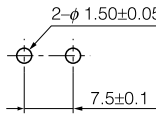
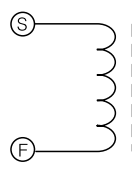
## ■ Examples Type 16B

|                                                                                                                                                                                                                                                                                                                                                                                                                          | Part No.   | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.(Ω)<br>[at 20°C]<br>**(Tol.±30 %)<br>(Tol.±20 %) | *IDC.<br>[at 20°C]<br>(A)max. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|------------------|---------------------|------------------------------------------------------|-------------------------------|
| <div>[Dimensions in mm]<br/>(not to scale)</div> <div></div> <div>Recommended PWB<br/>piercing plan</div> <div></div> <div>Connection Schematic</div> <div></div> | ELC16B3R3L | 3.3                | ±25              | 10                  | **0.012                                              | 8.50                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B3R9L | 3.9                |                  |                     | **0.013                                              | 8.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B4R7L | 4.7                |                  |                     | **0.015                                              | 7.80                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B5R6L | 5.6                | **0.016          |                     | 7.40                                                 |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B6R8L | 6.8                | ±20              |                     | 0.018                                                | 6.70                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B8R2L | 8.2                |                  |                     | 0.019                                                | 6.10                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B100L | 10.0               |                  |                     | 0.022                                                | 5.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B120L | 12.0               |                  |                     | 0.023                                                | 5.50                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B150L | 15.0               |                  |                     | 0.026                                                | 5.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B180L | 18.0               |                  |                     | 0.028                                                | 5.10                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B220L | 22.0               |                  |                     | ±10                                                  | 0.031                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B270L | 27.0               | 0.034            |                     |                                                      | 4.30                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B330L | 33.0               | 0.039            |                     |                                                      | 4.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B390L | 39.0               | 0.042            |                     |                                                      | 3.90                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B470L | 47.0               | 0.045            |                     |                                                      | 3.80                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B560L | 56.0               | 0.051            |                     |                                                      | 3.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B680L | 68.0               | 0.057            |                     |                                                      | 3.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B820L | 82.0               | 0.064            |                     |                                                      | 3.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B101L | 100.0              | 0.072            |                     |                                                      | 2.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B121L | 120.0              | 0.080            |                     |                                                      | 2.50                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B151L | 150.0              | 0.103            |                     |                                                      | 2.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B181L | 180.0              | 0.115            |                     |                                                      | 2.10                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B221L | 220.0              | 0.130            |                     |                                                      | 1.90                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B271L | 270.0              | 0.170            |                     |                                                      | 1.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B331L | 330.0              | 0.200            |                     |                                                      | 1.50                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B391L | 390.0              | 0.250            |                     |                                                      | 1.30                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B471L | 470.0              | 0.280            |                     |                                                      | 1.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B561L | 560.0              | 0.380            |                     |                                                      | 1.10                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B681L | 680.0              | 0.430            |                     |                                                      | 1.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B821L | 820.0              | 0.580            |                     |                                                      | 0.88                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B102L | 1000.0             | 0.660            |                     |                                                      | 0.85                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B122L | 1200.0             | 0.740            |                     |                                                      | 0.82                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B152L | 1500.0             | 0.870            |                     |                                                      | 0.74                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B182L | 1800.0             | 1.220            |                     |                                                      | 0.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B222L | 2200.0             | 1.380            |                     |                                                      | 0.57                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B272L | 2700.0             | 1.570            |                     |                                                      | 0.54                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B332L | 3300.0             | 2.000            |                     |                                                      | 0.47                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B392L | 3900.0             | 2.400            |                     |                                                      | 0.42                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B472L | 4700.0             | 3.300            |                     |                                                      | 0.36                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B562L | 5600.0             | 3.700            |                     |                                                      | 0.34                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B682L | 6800.0             | 4.200            |                     |                                                      | 0.32                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B822L | 8200.0             | 5.600            |                     |                                                      | 0.28                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B103L | 10000.0            | 6.400            |                     |                                                      | 0.26                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B123L | 12000.0            | 7.300            |                     |                                                      | 0.24                          |

\*Refer to former page

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.  
Should a safety concern arise regarding this product, please be sure to contact us immediately.

## ■ Examples Type 18B

|                                                                                                                                                                                                                                                                                                                                                                                                                           | Part No.   | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.(Ω)<br>[at 20°C]<br>(Tol.±20 %) | *IDC.<br>[at 20°C]<br>(A)max. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|------------------|---------------------|-------------------------------------|-------------------------------|
| <div>[Dimensions in mm]<br/>(not to scale)</div> <div></div> <div>Recommended PWB<br/>piercing plan</div> <div></div> <div>Connection Schematic</div> <div></div> | ELC18B3R3L | 3.3                | ±20              | 10                  | 0.010                               | 8.50                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B3R9L | 3.9                |                  |                     | 0.011                               | 8.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B4R7L | 4.7                |                  |                     | 0.012                               | 7.80                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B5R6L | 5.6                |                  |                     | 0.013                               | 7.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B6R8L | 6.8                |                  |                     | 0.015                               | 6.80                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B8R2L | 8.2                |                  |                     | 0.016                               | 6.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B100L | 10.0               |                  |                     | 0.017                               | 6.50                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B120L | 12.0               |                  |                     | 0.018                               | 6.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B150L | 15.0               |                  |                     | 0.021                               | 5.90                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B180L | 18.0               |                  |                     | 0.022                               | 5.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B220L | 22.0               | ±10              |                     | 0.025                               | 5.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B270L | 27.0               |                  |                     | 0.028                               | 4.80                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B330L | 33.0               |                  |                     | 0.030                               | 4.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B390L | 39.0               |                  |                     | 0.033                               | 4.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B470L | 47.0               |                  |                     | 0.037                               | 4.30                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B560L | 56.0               |                  |                     | 0.040                               | 4.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B680L | 68.0               |                  |                     | 0.046                               | 4.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B820L | 82.0               |                  |                     | 0.051                               | 3.70                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B101L | 100.0              |                  |                     | 0.057                               | 3.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B121L | 120.0              |                  |                     | 0.065                               | 3.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B151L | 150.0              |                  |                     | 0.072                               | 2.70                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B181L | 180.0              |                  |                     | 0.082                               | 2.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B221L | 220.0              |                  |                     | 0.090                               | 2.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B271L | 270.0              |                  |                     | 0.110                               | 2.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B331L | 330.0              |                  |                     | 0.130                               | 1.90                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B391L | 390.0              |                  |                     | 0.150                               | 1.80                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B471L | 470.0              |                  |                     | 0.210                               | 1.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B561L | 560.0              |                  |                     | 0.230                               | 1.50                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B681L | 680.0              |                  |                     | 0.260                               | 1.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B821L | 820.0              |                  |                     | 0.340                               | 1.30                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B102L | 1000.0             |                  |                     | 0.390                               | 1.10                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B122L | 1200.0             |                  |                     | 0.440                               | 1.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B152L | 1500.0             |                  |                     | 0.580                               | 0.85                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B182L | 1800.0             |                  |                     | 0.650                               | 0.84                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B222L | 2200.0             |                  |                     | 0.880                               | 0.75                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B272L | 2700.0             |                  |                     | 1.200                               | 0.68                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B332L | 3300.0             |                  |                     | 1.400                               | 0.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B392L | 3900.0             |                  |                     | 1.500                               | 0.57                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B472L | 4700.0             |                  |                     | 1.700                               | 0.55                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B562L | 5600.0             |                  |                     | 2.200                               | 0.46                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B682L | 6800.0             |                  |                     | 2.800                               | 0.45                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B822L | 8200.0             |                  |                     | 3.100                               | 0.41                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC18B103L | 10000.0            |                  |                     | 3.900                               | 0.36                          |

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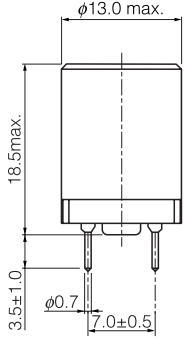
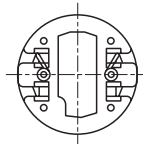
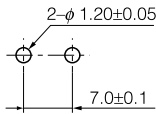
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.  
Should a safety concern arise regarding this product, please be sure to contact us immediately.

## ■ Examples Type 10E□□□L

|                                      | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.( $\Omega$ )<br>[at 20°C]<br>(Tol. $\pm 20$ %) | *IDC.<br>[at 20°C]<br>(A)max. |
|--------------------------------------|------------|--------------------------|------------------|---------------------|----------------------------------------------------|-------------------------------|
| [Dimensions in mm]<br>(not to scale) | ELC10E3R9L | 3.9                      | $\pm 20$         | 10                  | 0.024                                              | 2.90                          |
|                                      | ELC10E4R7L | 4.7                      |                  |                     | 0.027                                              | 2.80                          |
|                                      | ELC10E5R6L | 5.6                      |                  |                     | 0.030                                              | 2.70                          |
|                                      | ELC10E6R8L | 6.8                      |                  |                     | 0.032                                              | 2.60                          |
|                                      | ELC10E8R2L | 8.2                      |                  |                     | 0.035                                              | 2.50                          |
|                                      | ELC10E100L | 10.0                     |                  |                     | 0.038                                              | 2.40                          |
|                                      | ELC10E120L | 12.0                     |                  |                     | 0.040                                              | 2.30                          |
|                                      | ELC10E150L | 15.0                     |                  |                     | 0.046                                              | 2.20                          |
|                                      | ELC10E180L | 18.0                     |                  |                     | 0.049                                              | 2.10                          |
|                                      | ELC10E220L | 22.0                     |                  |                     | 0.056                                              | 2.00                          |
| Recommended PWB<br>piercing plan     | ELC10E270L | 27.0                     | $\pm 15$         |                     | 0.062                                              | 1.90                          |
|                                      | ELC10E330L | 33.0                     |                  |                     | 0.068                                              | 1.80                          |
|                                      | ELC10E390L | 39.0                     |                  |                     | 0.074                                              | 1.70                          |
|                                      | ELC10E470L | 47.0                     |                  |                     | 0.098                                              | 1.50                          |
|                                      | ELC10E560L | 56.0                     |                  |                     | 0.120                                              | 1.30                          |
|                                      | ELC10E680L | 68.0                     |                  |                     | 0.150                                              | 1.20                          |
|                                      | ELC10E820L | 82.0                     |                  |                     | 0.190                                              | 1.00                          |
|                                      | ELC10E101L | 100.0                    |                  |                     | 0.210                                              | 0.96                          |
|                                      | ELC10E121L | 120.0                    |                  |                     | 0.240                                              | 0.92                          |
|                                      | ELC10E151L | 150.0                    |                  |                     | 0.260                                              | 0.83                          |
| Connection Schematic                 | ELC10E181L | 180.0                    | $\pm 10$         |                     | 0.290                                              | 0.74                          |
|                                      | ELC10E221L | 220.0                    |                  |                     | 0.410                                              | 0.64                          |
|                                      | ELC10E271L | 270.0                    |                  |                     | 0.590                                              | 0.54                          |
|                                      | ELC10E331L | 330.0                    |                  |                     | 0.660                                              | 0.52                          |
|                                      | ELC10E391L | 390.0                    |                  |                     | 0.720                                              | 0.50                          |
|                                      | ELC10E471L | 470.0                    |                  |                     | 0.800                                              | 0.45                          |
|                                      | ELC10E561L | 560.0                    |                  |                     | 1.100                                              | 0.41                          |
|                                      | ELC10E681L | 680.0                    |                  |                     | 1.200                                              | 0.37                          |
|                                      | ELC10E821L | 820.0                    |                  |                     | 1.600                                              | 0.33                          |
|                                      | ELC10E102L | 1000.0                   |                  |                     | 1.800                                              | 0.31                          |
| ELC10E122L                           | 1200.0     | 2.000                    | 0.29             |                     |                                                    |                               |
| ELC10E152L                           | 1500.0     | 2.800                    | 0.26             |                     |                                                    |                               |
| ELC10E182L                           | 1800.0     | 3.200                    | 0.23             |                     |                                                    |                               |
| ELC10E222L                           | 2200.0     | 3.600                    | 0.20             |                     |                                                    |                               |
| ELC10E272L                           | 2700.0     | 5.200                    | 0.18             |                     |                                                    |                               |
| ELC10E332L                           | 3300.0     | 5.900                    | 0.17             |                     |                                                    |                               |
| ELC10E392L                           | 3900.0     | 6.500                    | 0.16             |                     |                                                    |                               |
| ELC10E472L                           | 4700.0     | 9.600                    | 0.14             |                     |                                                    |                               |
| ELC10E562L                           | 5600.0     | 10.800                   | 0.12             |                     |                                                    |                               |
| ELC10E682L                           | 6800.0     | 11.900                   | 0.11             |                     |                                                    |                               |
| ELC10E822L                           | 8200.0     | 13.200                   | 0.10             |                     |                                                    |                               |

\*Refer to former page

## ■ Examples Type 12E□□□L

|                                                                                                                                                                                                                                                                                                                                                                                                                        | Part No.   | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.(Ω)<br>[at 20°C]<br>(Tol.±20 %) | *IDC.<br>[at 20°C]<br>(A)max. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|------------------|---------------------|-------------------------------------|-------------------------------|
| <div>[Dimensions in mm]<br/>(not to scale)</div> <div></div> <div></div> <div>Recommended PWB<br/>piercing plan</div> <div></div> <div>Connection Schematic</div> | ELC12E4R7L | 4.7                | ±25              | 10                  | 0.014                               | 4.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E5R6L | 5.6                |                  |                     | 0.016                               | 4.10                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E6R8L | 6.8                |                  |                     | 0.018                               | 3.90                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E8R2L | 8.2                |                  |                     | 0.020                               | 3.70                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E100L | 10.0               | ±20              |                     | 0.023                               | 3.50                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E120L | 12.0               |                  |                     | 0.024                               | 3.30                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E150L | 15.0               |                  |                     | 0.028                               | 3.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E180L | 18.0               |                  |                     | 0.030                               | 3.10                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E220L | 22.0               | ±10              |                     | 0.033                               | 2.80                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E270L | 27.0               |                  |                     | 0.037                               | 2.50                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E330L | 33.0               |                  |                     | 0.041                               | 2.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E390L | 39.0               |                  |                     | 0.044                               | 2.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E470L | 47.0               |                  |                     | 0.048                               | 2.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E560L | 56.0               |                  |                     | 0.053                               | 1.80                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E680L | 68.0               |                  |                     | 0.073                               | 1.70                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E820L | 82.0               |                  |                     | 0.098                               | 1.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E101L | 100.0              |                  |                     | 0.140                               | 1.30                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E121L | 120.0              |                  |                     | 0.160                               | 1.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E151L | 150.0              |                  |                     | 0.180                               | 1.10                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E181L | 180.0              |                  |                     | 0.200                               | 1.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E221L | 220.0              |                  |                     | 0.220                               | 0.91                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E271L | 270.0              |                  |                     | 0.320                               | 0.83                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E331L | 330.0              |                  |                     | 0.360                               | 0.79                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E391L | 390.0              |                  |                     | 0.400                               | 0.70                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E471L | 470.0              |                  |                     | 0.440                               | 0.64                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E561L | 560.0              |                  |                     | 0.490                               | 0.57                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E681L | 680.0              |                  |                     | 0.610                               | 0.52                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E821L | 820.0              |                  |                     | 0.760                               | 0.47                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E102L | 1000.0             |                  |                     | 1.100                               | 0.43                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E122L | 1200.0             |                  |                     | 1.200                               | 0.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E152L | 1500.0             |                  |                     | 1.400                               | 0.36                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E182L | 1800.0             |                  |                     | 1.900                               | 0.32                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E222L | 2200.0             |                  |                     | 2.500                               | 0.30                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E272L | 2700.0             |                  |                     | 3.500                               | 0.26                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E332L | 3300.0             |                  |                     | 3.900                               | 0.24                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E392L | 3900.0             |                  |                     | 4.300                               | 0.22                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E472L | 4700.0             |                  |                     | 6.000                               | 0.20                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E562L | 5600.0             |                  |                     | 6.600                               | 0.17                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E682L | 6800.0             |                  |                     | 9.900                               | 0.15                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E822L | 8200.0             |                  |                     | 10.900                              | 0.14                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | ELC12E103L | 10000.0            |                  |                     | 12.200                              | 0.13                          |

\*Refer to former page

[Dimensions in mm]  
(not to scale)

Top view dimensions:  
Overall diameter:  $\phi 16.0$  max.  
Mounting hole diameter:  $3-\phi 0.7$   
Internal hole diameter:  $\phi 10.0 \pm 0.2$

Side view dimensions:  
Total height:  $22.0$  max.  
Base thickness:  $4.5 \pm 1.0$

Recommended PWB piercing plan

Piercing plan dimensions:  
Hole diameter:  $3-\phi 1.2 \pm 0.1$   
Overall diameter:  $\phi 10.0 \pm 0.1$  (Top View)

| Part No.   | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.(Ω)<br>[at 20°C]<br>(Tol.±20 %) | *IDC.<br>[at 20°C]<br>(A)max. |
|------------|--------------------|------------------|---------------------|-------------------------------------|-------------------------------|
| ELC15E100L | 10                 | ±20              | 10                  | 0.018                               | 5.40                          |
| ELC15E180L | 18                 |                  |                     | 0.024                               | 4.50                          |
| ELC15E330L | 33                 | ±10              |                     | 0.032                               | 4.00                          |
| ELC15E560L | 56                 |                  |                     | 0.039                               | 3.60                          |
| ELC15E101L | 100                |                  |                     | 0.053                               | 3.00                          |
| ELC15E181L | 180                |                  |                     | 0.100                               | 2.30                          |
| ELC15E331L | 330                |                  |                     | 0.170                               | 1.60                          |
| ELC15E561L | 560                |                  |                     | 0.280                               | 1.20                          |
| ELC15E102L | 1000               |                  |                     | 0.490                               | 0.95                          |
| ELC15E182L | 1800               |                  |                     | 0.870                               | 0.75                          |
| ELC15E332L | 3300               |                  |                     | 1.600                               | 0.53                          |
| ELC15E562L | 5600               |                  |                     | 2.600                               | 0.39                          |
| ELC15E103L | 10000              |                  |                     | 4.600                               | 0.30                          |

[Dimensions in mm]  
(not to scale)

4- $\phi$  0.8

11.3 $\pm$ 0.5

25.0 max.

3.5 $\pm$ 1.0

8.3 $\pm$ 0.5

$\phi$  19.0 max.

Recommended PWB  
piercing plan

4- $\phi$  1.2 $\pm$ 0.1

8.3 $\pm$ 0.1

11.3 $\pm$ 0.1

(Top View)

| Part No.   | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.(Ω)<br>[at 20°C]<br>(Tol.±20 %) | *IDC.<br>[at 20°C]<br>(A)max. |
|------------|--------------------|------------------|---------------------|-------------------------------------|-------------------------------|
| ELC18E100L | 10                 | ±20              | 10                  | 0.014                               | 5.90                          |
| ELC18E180L | 18                 |                  |                     | 0.019                               | 5.20                          |
| ELC18E330L | 33                 | ±10              |                     | 0.026                               | 4.60                          |
| ELC18E560L | 56                 |                  |                     | 0.031                               | 3.80                          |
| ELC18E101L | 100                |                  |                     | 0.044                               | 3.00                          |
| ELC18E181L | 180                |                  |                     | 0.067                               | 2.50                          |
| ELC18E331L | 330                |                  |                     | 0.110                               | 1.90                          |
| ELC18E561L | 560                |                  |                     | 0.170                               | 1.40                          |
| ELC18E102L | 1000               |                  |                     | 0.280                               | 1.00                          |
| ELC18E182L | 1800               |                  |                     | 0.570                               | 0.80                          |
| ELC18E332L | 3300               |                  |                     | 1.000                               | 0.60                          |
| ELC18E562L | 5600               |                  |                     | 1.600                               | 0.46                          |
| ELC18E103L | 10000              |                  |                     | 2.700                               | 0.33                          |

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