

### Choke Coils

Series: **Pin terminal**

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

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

Japan  
Singapore  
Indonesia



Type 06D



Type 09D



Type 10D



Type 12D



Type 16B



Type 18B



Type 10E□□□L



Type 12E



Type 12E□□□L

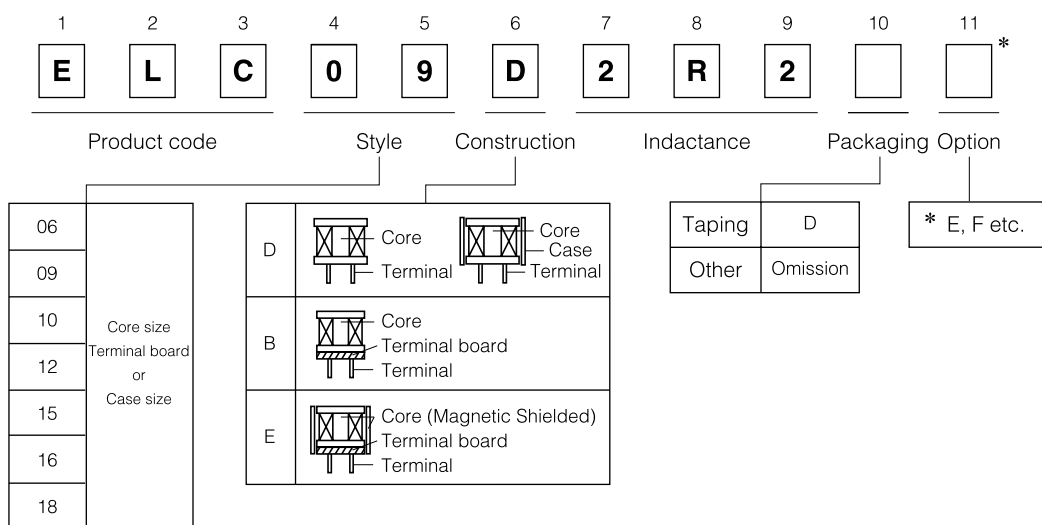


Type 15E□□□L

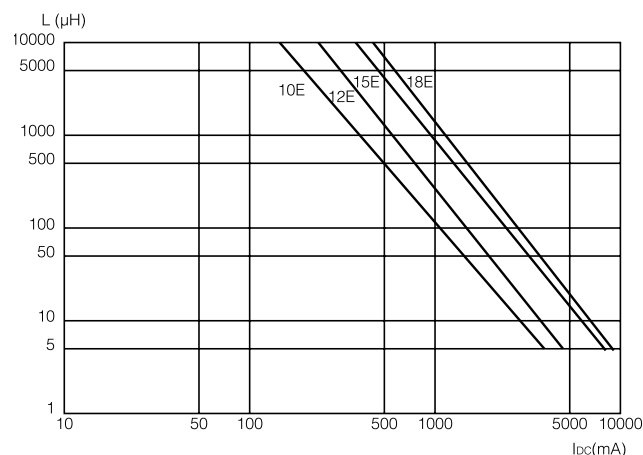
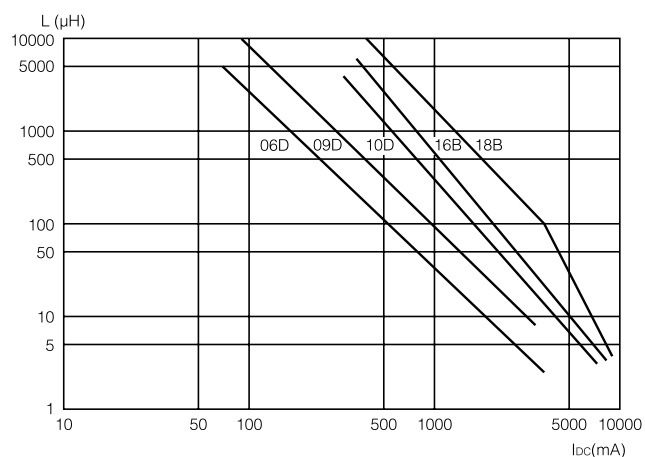


Type 18E□□□L

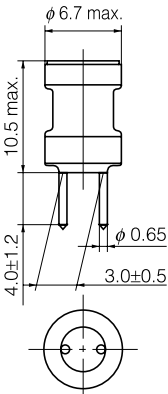
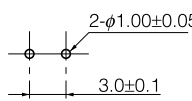
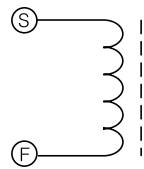
#### ■ Explanation of Part Numbers



#### ■ Available I-L Characteristics

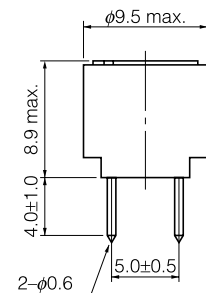
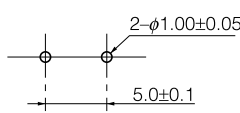
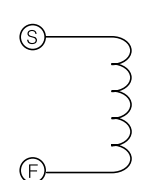


■ Examples Type 06D

|                                                                                                                                                                                                                                                                                                                                                                             | 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. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|------------------|---------------------|-------------------------------------------------------|--------------------------------|
| <p>[Dimensions in mm]<br/>(not to scale)</p>  <p>Recommended PWB<br/>piercing plan</p>  <p>Connection Schematic</p>  | 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               | 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. rised.

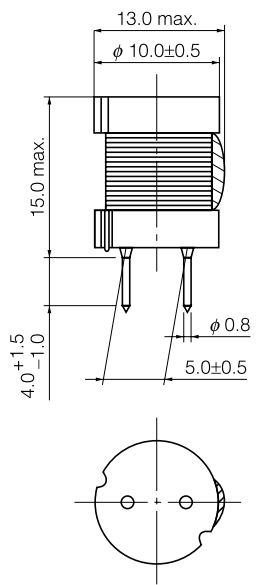
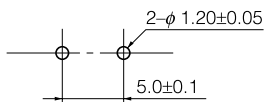
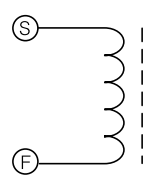
## ■ Examples Type 09D

|                                                                                                                                                                                                                                                                                                                                                                                                                          | 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> <div>Connection Schematic</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               | ±10              |                     | 0.035                                | 2.10                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D180□F | 18.0               |                  |                     | 0.038                                | 2.00                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D220□F | 22.0               |                  |                     | 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. rised.

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 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. |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|------------------|---------------------|-------------------------------------|-------------------------------|--|
| <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> | 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                          |  |

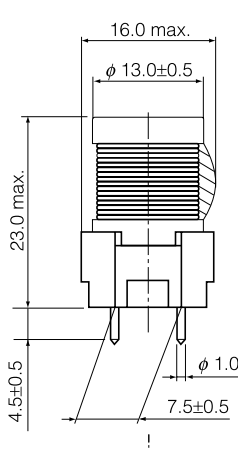
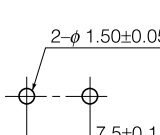
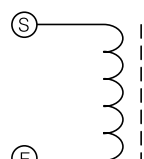
\*Allowable DC Current:Smaller current value either when the inductance of -10 %max. changed, or when the temperaturer of 45k max. rised.

### ■ Examples Type 12D

|                                                                                                                   | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR.( $\Omega$ )<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> | ELC12D101E | 100                      | ±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                           |

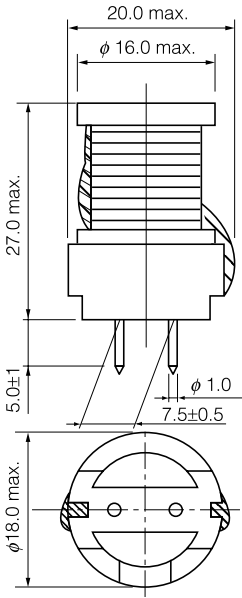
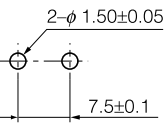
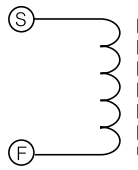
\*Allowable DC Current:Smaller current value either when the inductance of -10 %max. changed, or when the temperaturer of 45k max. risen.

## ■ 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                | ±20              |                     | **0.015                                               | 7.80                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B5R6L | 5.6                |                  |                     | **0.016                                               | 7.40                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC16B6R8L | 6.8                |                  |                     | 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                                                 | 4.60                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 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                          |

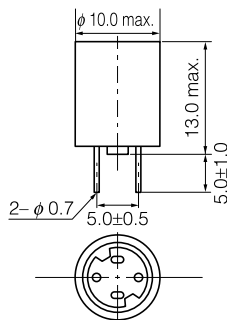
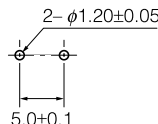
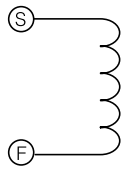
\*Refer to former page

## ■ Examples Type 18B

|                                                                                                                                                                                                                                                                                                                                                                                                                           | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | DCR( $\Omega$ )<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                          |

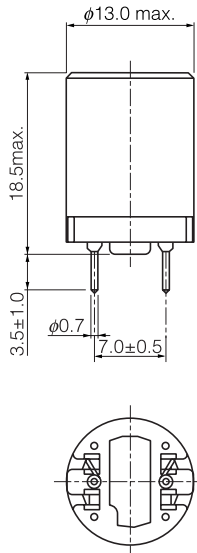
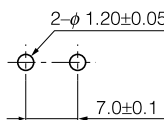
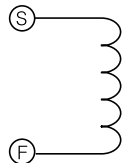
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## ■ Examples Type 10E□□□L

|                                                                                                                                                                                                                                                                                                                                                                                                                          | 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>Recommended PWB<br/>piercing plan</div> <div></div> <div>Connection Schematic</div> <div></div> | ELC10E3R9L | 3.9                | ±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               | ±15              |                     | 0.056                               | 2.00                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC10E270L | 27.0               |                  |                     | 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                                |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC10E181L | 180.0              | 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                                |                               |

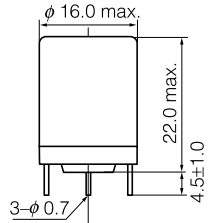
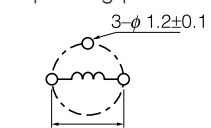
\*Refer to former page

## ■ 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>Recommended PWB<br/>piercing plan</div> <div></div> <div>Connection Schematic</div> <div></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                          |

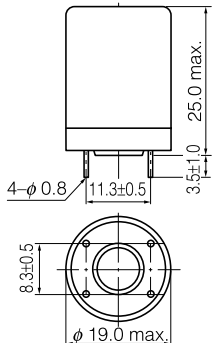
\*Refer to former page

## ■ Examples Type 15E□□□L

| <div><p>[Dimensions in mm]<br/>(not to scale)</p><p>Recommended PWB<br/>piercing plan</p><p>φ 10.0±0.1 (Top View)</p></div> | 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                 |                  |                     | 0.032                               | 4.00                          |  |
|                                                                                                                                                                                                                                                                                               | ELC15E560L | 56                 | ±10              |                     | 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                          |  |

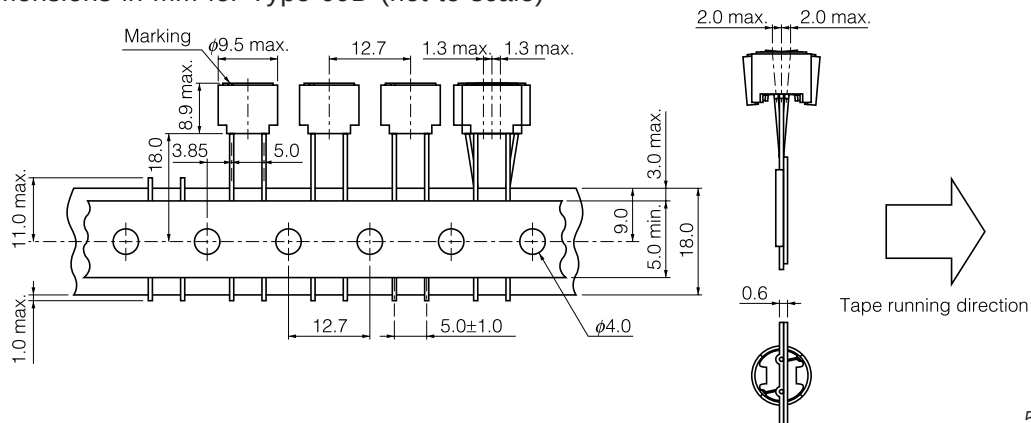
\*Allowable DC Current: Smaller current value either when the inductance of -10 % max. changed, or when the temperature of 45 k max. risen.

## ■ Examples Type 18E□□□L

| <div><p>[Dimensions in mm]<br/>(not to scale)</p><p>Recommended PWB<br/>piercing plan</p><p>(Top View)</p></div> | 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                 |                  |                     | 0.026                               | 4.60                          |  |
|                                                                                                                                                                                                    | ELC18E560L | 56                 | ±10              |                     | 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                          |  |

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

## ■ Tape Dimensions in mm for Type 09D (not to scale)



500 pcs./reel