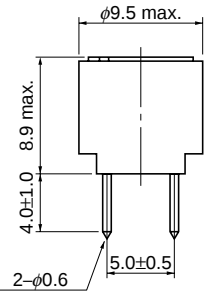
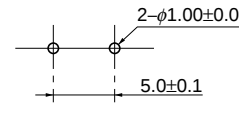
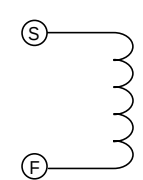


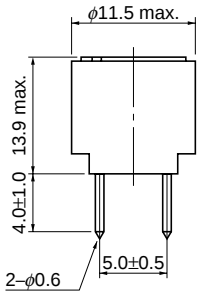
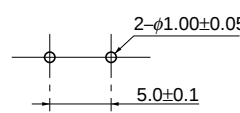
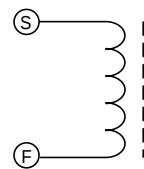
### ■ Examples Type 09D

|                                                                                                                                                                                                                                                                                                                                                                                                                          | Part No.    | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | R <sub>DC</sub> (Ω)<br>[at 20 °C]<br>** (Tol.±30 %)<br>(Tol.±20 %) | *I <sub>DC</sub> .<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               |                  |                     | 0.035                                                              | 2.10                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D180□F | 18.0               |                  |                     | 0.038                                                              | 2.00                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D220□F | 22.0               | ±10              |                     | 0.051                                                              | 1.80                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D270□F | 27.0               |                  |                     | 0.058                                                              | 1.60                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D330□F | 33.0               |                  |                     | 0.081                                                              | 1.40                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D390□F | 39.0               |                  |                     | 0.087                                                              | 1.30                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D470□F | 47.0               |                  |                     | 0.110                                                              | 1.20                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D560□F | 56.0               |                  |                     | 0.130                                                              | 1.10                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D680□F | 68.0               |                  |                     | 0.140                                                              | 1.00                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D820□F | 82.0               |                  |                     | 0.160                                                              | 0.90                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D101□F | 100.0              |                  |                     | 0.200                                                              | 0.82                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D121□F | 120.0              |                  |                     | 0.250                                                              | 0.77                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D151□F | 150.0              |                  |                     | 0.320                                                              | 0.74                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D181□F | 180.0              |                  |                     | 0.360                                                              | 0.61                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D221□F | 220.0              |                  |                     | 0.410                                                              | 0.58                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D271□F | 270.0              |                  |                     | 0.500                                                              | 0.52                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D331□F | 330.0              |                  |                     | 0.650                                                              | 0.49                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D391□F | 390.0              |                  |                     | 0.860                                                              | 0.46                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D471□F | 470.0              |                  |                     | 0.980                                                              | 0.39                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D561□F | 560.0              |                  |                     | 1.100                                                              | 0.36                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D681□F | 680.0              |                  |                     | 1.400                                                              | 0.34                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D821□F | 820.0              |                  |                     | 1.600                                                              | 0.30                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D102□F | 1000.0             |                  |                     | 2.100                                                              | 0.28                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D122□F | 1200.0             |                  |                     | 2.400                                                              | 0.23                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D152□F | 1500.0             |                  |                     | 2.800                                                              | 0.21                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D182□F | 1800.0             |                  |                     | 3.800                                                              | 0.19                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D222□F | 2200.0             |                  |                     | 4.400                                                              | 0.17                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D272□F | 2700.0             |                  |                     | 6.100                                                              | 0.16                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D332□F | 3300.0             |                  |                     | 7.000                                                              | 0.14                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D392□F | 3900.0             |                  |                     | 8.000                                                              | 0.13                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D472□F | 4700.0             |                  |                     | 11.200                                                             | 0.12                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D562□F | 5600.0             |                  |                     | 12.600                                                             | 0.11                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D682□F | 6800.0             |                  |                     | 14.400                                                             | 0.10                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D822□F | 8200.0             |                  |                     | 16.600                                                             | 0.09                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC09D103□F | 10000.0            |                  |                     | 18.800                                                             | 0.08                                        |

\* Allowable DC Current: Smaller current value either when the inductance is -10 % or when the case temperature has risen 45 °C.

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.

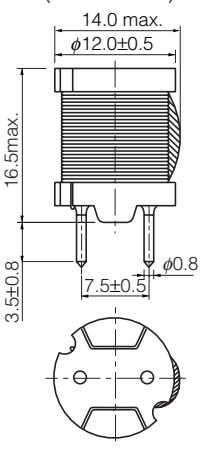
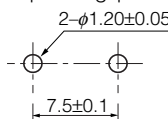
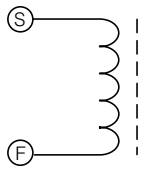
## ■ Examples Type 11D

|                                                                                                                                                                                                                                                                                                                                                                                                                          | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | R <sub>DC</sub> ( $\Omega$ )<br>[at 20 °C]<br>(Tol. $\pm 20$ %) | *I <sub>DC</sub> .<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> | ELC11D2R2F | 2.2                      | ±20              | 10                  | 0.013                                                           | 5.30                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D2R7F | 2.7                      |                  |                     | 0.014                                                           | 5.10                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D3R3F | 3.3                      |                  |                     | 0.015                                                           | 4.90                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D3R9F | 3.9                      |                  |                     | 0.016                                                           | 4.80                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D4R7F | 4.7                      |                  |                     | 0.018                                                           | 4.70                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D5R6F | 5.6                      |                  |                     | 0.020                                                           | 4.60                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D6R8F | 6.8                      |                  |                     | 0.022                                                           | 4.40                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D8R2F | 8.2                      |                  |                     | 0.024                                                           | 3.90                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D100F | 10.0                     |                  |                     | 0.029                                                           | 3.50                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D120F | 12.0                     |                  |                     | 0.030                                                           | 3.40                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D150F | 15.0                     | ±10              |                     | 0.033                                                           | 3.30                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D180F | 18.0                     |                  |                     | 0.037                                                           | 3.10                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D220F | 22.0                     |                  |                     | 0.040                                                           | 2.80                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D270F | 27.0                     |                  |                     | 0.048                                                           | 2.70                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D330F | 33.0                     |                  |                     | 0.051                                                           | 2.60                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D390F | 39.0                     |                  |                     | 0.057                                                           | 2.50                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D470F | 47.0                     |                  |                     | 0.063                                                           | 2.30                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D560F | 56.0                     |                  |                     | 0.071                                                           | 2.10                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D680F | 68.0                     |                  |                     | 0.082                                                           | 2.00                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D820F | 82.0                     |                  |                     | 0.090                                                           | 1.90                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D101F | 100.0                    |                  |                     | 0.120                                                           | 1.80                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D121F | 120.0                    |                  |                     | 0.160                                                           | 1.60                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D151F | 150.0                    |                  |                     | 0.180                                                           | 1.40                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D181F | 180.0                    |                  |                     | 0.200                                                           | 1.30                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D221F | 220.0                    |                  |                     | 0.230                                                           | 1.20                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D271F | 270.0                    |                  |                     | 0.320                                                           | 1.10                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D331F | 330.0                    |                  |                     | 0.350                                                           | 1.00                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D391F | 390.0                    |                  |                     | 0.400                                                           | 0.95                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D471F | 470.0                    |                  |                     | 0.490                                                           | 0.82                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D561F | 560.0                    |                  |                     | 0.620                                                           | 0.73                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D681F | 680.0                    |                  |                     | 0.780                                                           | 0.64                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D821F | 820.0                    |                  |                     | 0.870                                                           | 0.62                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D102F | 1000.0                   |                  |                     | 1.100                                                           | 0.57                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D122F | 1200.0                   |                  |                     | 1.200                                                           | 0.52                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D152F | 1500.0                   |                  |                     | 1.700                                                           | 0.43                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D182F | 1800.0                   |                  |                     | 2.000                                                           | 0.40                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D222F | 2200.0                   |                  |                     | 2.300                                                           | 0.38                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D272F | 2700.0                   |                  |                     | 2.800                                                           | 0.34                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D332F | 3300.0                   |                  |                     | 3.600                                                           | 0.31                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D392F | 3900.0                   |                  |                     | 4.500                                                           | 0.29                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D472F | 4700.0                   |                  |                     | 5.200                                                           | 0.26                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D562F | 5600.0                   |                  |                     | 6.900                                                           | 0.23                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D682F | 6800.0                   |                  |                     | 7.800                                                           | 0.21                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D822F | 8200.0                   |                  |                     | 10.600                                                          | 0.18                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | ELC11D103F | 10000.0                  |                  |                     | 11.800                                                          | 0.16                                         |

\* Allowable DC Current: Smaller current value either when the inductance is  $-10$  % or when the case temperature has risen  $45$  °C.

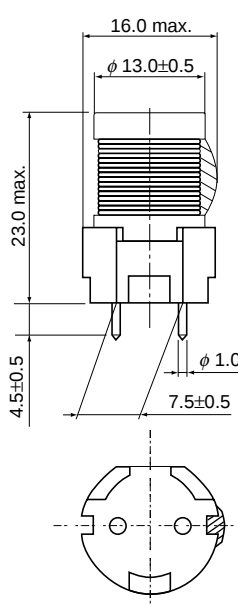
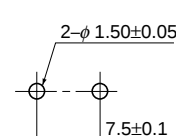
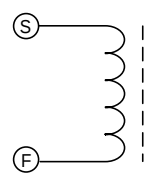
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.  
Should a safety concern arise regarding this product, please be sure to contact us immediately.

### ■ Examples Type 12D

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

\* Allowable DC Current: Smaller current value either when the inductance is  $-10$  % or when the case temperature has risen  $45$  °C.

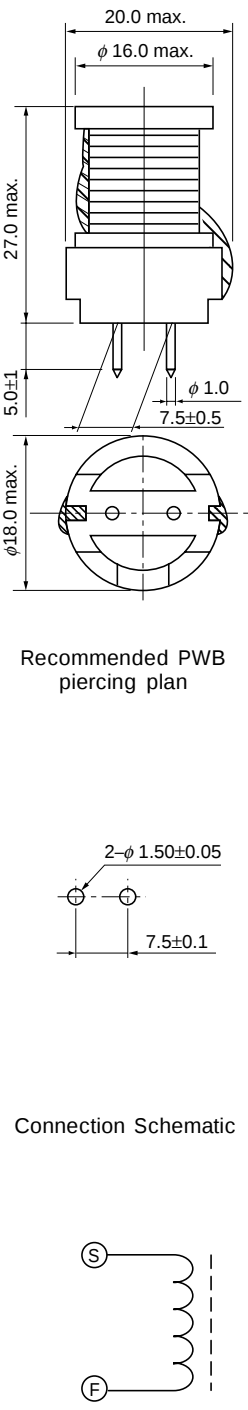
### ■ Examples Type 16B

|                                                                                                                                                                                                                                                                                                                                                                                                                           | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | $R_{DC}(\Omega)$<br>[at 20 °C]<br>** (Tol. $\pm 30$ %)<br>(Tol. $\pm 20$ %) | * $I_{DC}$ .<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                      | $\pm 25$         | 10                  | **0.012                                                                     | 8.50                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC16B3R9L | 3.9                      |                  |                     | **0.013                                                                     | 8.00                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC16B4R7L | 4.7                      |                  |                     | **0.015                                                                     | 7.80                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | ELC16B5R6L | 5.6                      | $\pm 20$         |                     | **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                     | $\pm 10$         |                     | 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                                   |

\* Allowable DC Current: Smaller current value either when the inductance is  $-10$  % or when the case temperature has risen  $45$  °C.

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

### ■ Examples Type 18B

|                                                                                                                                                                                                                             | Part No.   | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | R <sub>DC</sub> (Ω)<br>[at 20 °C]<br>(Tol.±20 %) | *I <sub>DC</sub> .<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>Connection Schematic</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               |                  |                     | 0.025                                            | 5.40                                        |
|                                                                                                                                                                                                                             | ELC18B270L | 27.0               |                  |                     | 0.028                                            | 4.80                                        |
|                                                                                                                                                                                                                             | ELC18B330L | 33.0               | ±10              |                     | 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                                        |

\* Allowable DC Current: Smaller current value either when the inductance is -10 % or when the case temperature has risen 45 °C.