

Choke Coils

Japan  
Singapore

Series: **High power**  
Type: **06D, 08D, 10D, 16B, 18B**  
**10E, 12E, 15E, 18E**

High power inductors featuring small size and high performance

Type 06D      Type 08D      Type 10D

Industrial Property: Utility model 1 (pending)

■ Features

- Adoption of High  $\mu$  and High Bm ferrite cores
- Wide inductor range

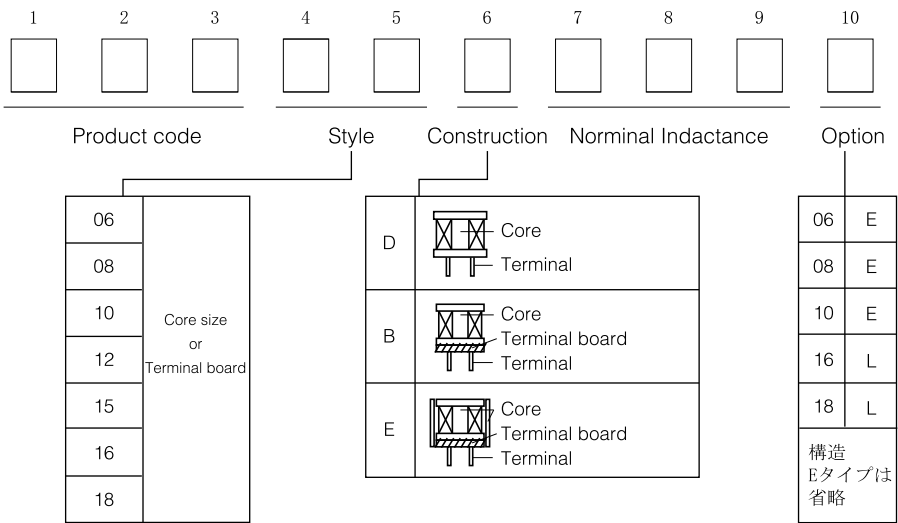
Type 16B      Type 18B

■ Recommended Applications

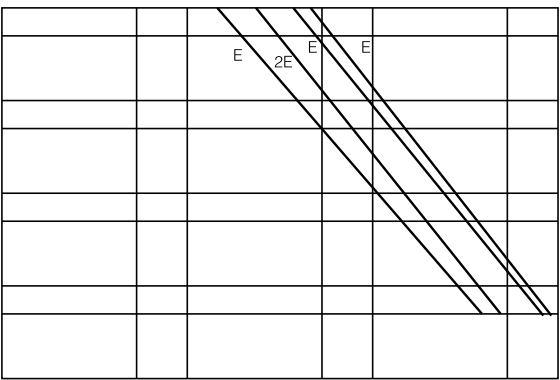
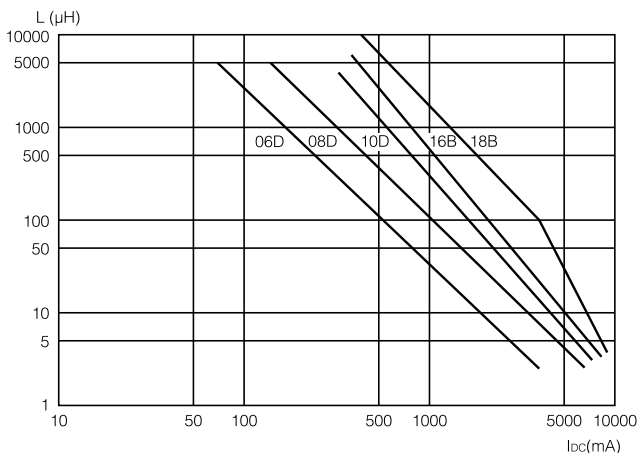
- CTV, VTR, Audio, PC, Facsimiles

■ Explanation of Part Numbers

Type 10E      Type 12E      Type 15E      Type 18E



■ Available I-L Characteristics



Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.  
Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.

## ■ Examples Type 06D

| Type | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | [at 20°C]<br>*DCR.<br>( $\Omega \pm 30\%$ )<br>( $\Omega \pm 20\%$ ) | **[at 20°C]<br>IDC.<br>(Amax.) |
|------|------------|--------------------------|------------------|---------------------|----------------------------------------------------------------------|--------------------------------|
| 06D  | ELC06D2R2E | 2.2                      | $\pm 20$         | 10                  | *0.026                                                               | 3.4                            |
|      | ELC06D2R7E | 2.7                      |                  |                     | *0.028                                                               | 3.2                            |
|      | ELC06D3R3E | 3.3                      |                  |                     | *0.027                                                               | 3.0                            |
|      | ELC06D3R9E | 3.9                      |                  |                     | *0.030                                                               | 2.8                            |
|      | ELC06D4R7E | 4.7                      |                  |                     | *0.033                                                               | 2.6                            |
|      | ELC06D5R6E | 5.6                      |                  |                     | *0.035                                                               | 2.4                            |
|      | ELC06D6R8E | 6.8                      |                  |                     | 0.041                                                                | 2.0                            |
|      | ELC06D8R2E | 8.2                      |                  |                     | 0.048                                                                | 1.8                            |
|      | ELC06D100E | 10                       |                  |                     | 0.052                                                                | 1.7                            |
|      | ELC06D120E | 12                       |                  |                     | 0.054                                                                | 1.65                           |
|      | ELC06D150E | 15                       |                  |                     | 0.059                                                                | 1.50                           |
|      | ELC06D180E | 18                       |                  |                     | 0.065                                                                | 1.25                           |
|      | ELC06D220E | 22                       | $\pm 10$         |                     | 0.076                                                                | 1.20                           |
|      | ELC06D270E | 27                       |                  |                     | 0.083                                                                | 0.95                           |
|      | ELC06D330E | 33                       |                  |                     | 0.100                                                                | 0.90                           |
|      | ELC06D390E | 39                       |                  |                     | 0.105                                                                | 0.85                           |
|      | ELC06D470E | 47                       |                  |                     | 0.12                                                                 | 0.80                           |
|      | ELC06D560E | 56                       |                  |                     | 0.14                                                                 | 0.75                           |
|      | ELC06D680E | 68                       |                  |                     | 0.15                                                                 | 0.70                           |
|      | ELC06D820E | 82                       |                  |                     | 0.21                                                                 | 0.55                           |
|      | ELC06D101E | 100                      |                  |                     | 0.23                                                                 | 0.50                           |
|      | ELC06D121E | 120                      |                  |                     | 0.26                                                                 | 0.49                           |
|      | ELC06D151E | 150                      |                  |                     | 0.37                                                                 | 0.45                           |
|      | ELC06D181E | 180                      |                  |                     | 0.42                                                                 | 0.40                           |
|      | ELC06D221E | 220                      |                  |                     | 0.55                                                                 | 0.36                           |
|      | ELC06D271E | 270                      |                  |                     | 0.65                                                                 | 0.35                           |
|      | ELC06D331E | 330                      |                  |                     | 0.74                                                                 | 0.30                           |
|      | ELC06D391E | 390                      |                  |                     | 0.95                                                                 | 0.27                           |
|      | ELC06D471E | 470                      |                  |                     | 1.08                                                                 | 0.24                           |
|      | ELC06D561E | 560                      |                  |                     | 1.22                                                                 | 0.22                           |
|      | ELC06D681E | 680                      |                  |                     | 1.59                                                                 | 0.21                           |
|      | ELC06D821E | 820                      |                  |                     | 1.76                                                                 | 0.18                           |
|      | ELC06D102E | 1000                     |                  |                     | 2.49                                                                 | 0.16                           |
|      | ELC06D122E | 1200                     |                  |                     | 2.76                                                                 | 0.15                           |
|      | ELC06D152E | 1500                     |                  |                     | 3.24                                                                 | 0.13                           |
|      | ELC06D182E | 1800                     |                  |                     | 4.56                                                                 | 0.12                           |
|      | ELC06D222E | 2200                     |                  |                     | 5.18                                                                 | 0.11                           |
|      | ELC06D272E | 2700                     |                  |                     | 6.08                                                                 | 0.10                           |
|      | ELC06D332E | 3300                     |                  |                     | 8.80                                                                 | 0.10                           |
|      | ELC06D392E | 3900                     |                  |                     | 9.47                                                                 | 0.08                           |
|      | ELC06D472E | 4700                     |                  |                     | 10.9                                                                 | 0.075                          |
|      | ELC06D562E | 5600                     |                  |                     | 12.3                                                                 | 0.07                           |

\*DC Resistance:  $\pm 30\%$ \*\*Allowable DC Current: Smaller current value either when the inductance of  $-10\%$  max. changed, or when the temperature of 45k max. rised.

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## ■ Examples Type 08D

| Type | Part No.   | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | [at 20°C]<br>*DCR.<br>(Ω±30%)<br>(Ω±20%) | **[at 20°C]<br>IDC.<br>(Amax.) |
|------|------------|--------------------|------------------|---------------------|------------------------------------------|--------------------------------|
| 08D  | ELC08D2R2E | 2.2                | ±20              | 10                  | 0.010                                    | 7.2                            |
|      | ELC08D2R7E | 2.7                |                  |                     | 0.011                                    | 6.3                            |
|      | ELC08D3R3E | 3.3                |                  |                     | 0.013                                    | 5.7                            |
|      | ELC08D3R9E | 3.9                |                  |                     | 0.014                                    | 5.0                            |
|      | ELC08D4R7E | 4.7                |                  |                     | 0.015                                    | 4.3                            |
|      | ELC08D5R6E | 5.6                |                  |                     | 0.016                                    | 4.1                            |
|      | ELC08D6R8E | 6.8                |                  |                     | 0.017                                    | 3.8                            |
|      | ELC08D8R2E | 8.2                |                  |                     | 0.019                                    | 3.6                            |
|      | ELC08D100E | 10                 |                  |                     | 0.022                                    | 2.8                            |
|      | ELC08D120E | 12                 |                  |                     | 0.025                                    | 2.7                            |
|      | ELC08D150E | 15                 |                  |                     | 0.028                                    | 2.4                            |
|      | ELC08D180E | 18                 |                  |                     | 0.031                                    | 2.2                            |
|      | ELC08D220E | 22                 | ±10              |                     | 0.034                                    | 2.0                            |
|      | ELC08D270E | 27                 |                  |                     | 0.039                                    | 1.8                            |
|      | ELC08D330E | 33                 |                  |                     | 0.045                                    | 1.4                            |
|      | ELC08D390E | 39                 |                  |                     | 0.052                                    | 1.3                            |
|      | ELC08D470E | 47                 |                  |                     | 0.067                                    | 1.2                            |
|      | ELC08D560E | 56                 |                  |                     | 0.073                                    | 1.1                            |
|      | ELC08D680E | 68                 |                  |                     | 0.086                                    | 1.0                            |
|      | ELC08D820E | 82                 |                  |                     | 0.11                                     | 0.90                           |
|      | ELC08D101E | 100                |                  |                     | 0.12                                     | 0.80                           |
|      | ELC08D121E | 120                |                  |                     | 0.17                                     | 0.75                           |
|      | ELC08D151E | 150                |                  |                     | 0.20                                     | 0.70                           |
|      | ELC08D181E | 180                |                  |                     | 0.22                                     | 0.65                           |
|      | ELC08D221E | 220                |                  |                     | 0.29                                     | 0.60                           |
|      | ELC08D271E | 270                |                  |                     | 0.36                                     | 0.55                           |
|      | ELC08D331E | 330                |                  |                     | 0.42                                     | 0.50                           |
|      | ELC08D391E | 390                |                  |                     | 0.49                                     | 0.45                           |
|      | ELC08D471E | 470                |                  |                     | 0.61                                     | 0.36                           |
|      | ELC08D561E | 560                |                  |                     | 0.69                                     | 0.34                           |
|      | ELC08D681E | 680                |                  |                     | 0.93                                     | 0.32                           |
|      | ELC08D821E | 820                |                  |                     | 1.1                                      | 0.30                           |
|      | ELC08D102E | 1000               |                  |                     | 1.3                                      | 0.29                           |
|      | ELC08D122E | 1200               |                  |                     | 1.6                                      | 0.28                           |
|      | ELC08D152E | 1500               |                  |                     | 1.9                                      | 0.24                           |
|      | ELC08D182E | 1800               |                  |                     | 2.5                                      | 0.21                           |
|      | ELC08D222E | 2200               |                  |                     | 2.8                                      | 0.20                           |
|      | ELC08D272E | 2700               |                  |                     | 3.7                                      | 0.19                           |
|      | ELC08D332E | 3300               |                  |                     | 4.4                                      | 0.16                           |
|      | ELC08D392E | 3900               |                  |                     | 4.9                                      | 0.14                           |

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

## ■ Examples Type 10D

| Type | Part No.   | Inductance<br>(μH) | Tolerance<br>(%) | Test Freq.<br>(kHz) | [at 20°C]<br>*DCR.<br>(Ω±30%)<br>(Ω±20%) | **[at 20°C]<br>IDC.<br>(Amax.) |
|------|------------|--------------------|------------------|---------------------|------------------------------------------|--------------------------------|
| 10D  | ELC10D2R2E | 2.2                | ±20              | 10                  | 0.014                                    | 5.9                            |
|      | ELC10D2R7E | 2.7                |                  |                     | 0.015                                    | 5.5                            |
|      | ELC10D3R3E | 3.3                |                  |                     | 0.016                                    | 5.2                            |
|      | ELC10D3R9E | 3.9                |                  |                     | 0.018                                    | 4.8                            |
|      | ELC10D4R7E | 4.7                |                  |                     | 0.019                                    | 4.6                            |
|      | ELC10D5R6E | 5.6                |                  |                     | 0.021                                    | 4.3                            |
|      | ELC10D6R8E | 6.8                |                  |                     | 0.022                                    | 4.2                            |
|      | ELC10D8R2E | 8.2                |                  |                     | 0.024                                    | 4.0                            |
|      | ELC10D100E | 10                 |                  |                     | 0.026                                    | 3.9                            |
|      | ELC10D120E | 12                 |                  |                     | 0.028                                    | 3.8                            |
|      | ELC10D150E | 15                 |                  |                     | 0.033                                    | 3.5                            |
|      | ELC10D180E | 18                 |                  |                     | 0.036                                    | 3.4                            |
|      | ELC10D220E | 22                 | ±10              |                     | 0.040                                    | 3.2                            |
|      | ELC10D270E | 27                 |                  |                     | 0.044                                    | 3.0                            |
|      | ELC10D330E | 33                 |                  |                     | 0.051                                    | 2.8                            |
|      | ELC10D390E | 39                 |                  |                     | 0.054                                    | 2.7                            |
|      | ELC10D470E | 47                 |                  |                     | 0.060                                    | 2.5                            |
|      | ELC10D560E | 56                 |                  |                     | 0.067                                    | 2.3                            |
|      | ELC10D680E | 68                 |                  |                     | 0.075                                    | 2.1                            |
|      | ELC10D820E | 82                 |                  |                     | 0.095                                    | 1.8                            |
|      | ELC10D101E | 100                |                  |                     | 0.11                                     | 1.7                            |
|      | ELC10D121E | 120                |                  |                     | 0.12                                     | 1.6                            |
|      | ELC10D151E | 150                |                  |                     | 0.16                                     | 1.4                            |
|      | ELC10D181E | 180                |                  |                     | 0.18                                     | 1.3                            |
|      | ELC10D221E | 220                |                  |                     | 0.21                                     | 1.1                            |
|      | ELC10D271E | 270                |                  |                     | 0.28                                     | 1.0                            |
|      | ELC10D331E | 330                |                  |                     | 0.32                                     | 0.90                           |
|      | ELC10D391E | 390                |                  |                     | 0.40                                     | 0.80                           |
|      | ELC10D471E | 470                |                  |                     | 0.45                                     | 0.70                           |
|      | ELC10D561E | 560                |                  |                     | 0.56                                     | 0.68                           |
|      | ELC10D681E | 680                |                  |                     | 0.66                                     | 0.64                           |
|      | ELC10D821E | 820                |                  |                     | 0.80                                     | 0.55                           |
|      | ELC10D102E | 1000               |                  |                     | 1.0                                      | 0.50                           |
|      | ELC10D122E | 1200               |                  |                     | 1.2                                      | 0.45                           |
|      | ELC10D152E | 1500               |                  |                     | 1.5                                      | 0.42                           |
|      | ELC10D182E | 1800               |                  |                     | 1.8                                      | 0.40                           |
|      | ELC10D222E | 2200               |                  |                     | 2.1                                      | 0.36                           |
|      | ELC10D272E | 2700               |                  |                     | 2.7                                      | 0.32                           |
|      | ELC10D332E | 3300               |                  |                     | 3.2                                      | 0.28                           |
|      | ELC10D392E | 3900               |                  |                     | 3.5                                      | 0.26                           |

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

## ■ Examples Type 16B

| Type | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | [at 20°C]<br>*DCR.<br>( $\Omega \pm 30\%$ )<br>( $\Omega \pm 20\%$ ) | **[at 20°C]<br>IDC.<br>(Amax.) |
|------|------------|--------------------------|------------------|---------------------|----------------------------------------------------------------------|--------------------------------|
| 16B  | ELC16B3R3L | 3.3                      | $\pm 25$         | 10                  | *0.012                                                               | 8.5                            |
|      | ELC16B3R9L | 3.9                      |                  |                     | *0.013                                                               | 8.0                            |
|      | ELC16B4R7L | 4.7                      |                  |                     | *0.015                                                               | 7.8                            |
|      | ELC16B5R6L | 5.6                      | *0.016           |                     | 7.4                                                                  |                                |
|      | ELC16B6R8L | 6.8                      | $\pm 20$         |                     | 0.018                                                                | 6.7                            |
|      | ELC16B8R2L | 8.2                      |                  |                     | 0.019                                                                | 6.1                            |
|      | ELC16B100L | 10                       |                  |                     | 0.022                                                                | 5.6                            |
|      | ELC16B120L | 12                       |                  |                     | 0.023                                                                | 5.5                            |
|      | ELC16B150L | 15                       |                  |                     | 0.026                                                                | 5.4                            |
|      | ELC16B180L | 18                       |                  |                     | 0.028                                                                | 5.1                            |
|      | ELC16B220L | 22                       |                  |                     | 0.031                                                                | 4.6                            |
|      | ELC16B270L | 27                       |                  |                     | 0.034                                                                | 4.3                            |
|      | ELC16B330L | 33                       |                  |                     | 0.039                                                                | 4.0                            |
|      | ELC16B390L | 39                       |                  |                     | 0.042                                                                | 3.9                            |
|      | ELC16B470L | 47                       | 0.045            |                     | 3.8                                                                  |                                |
|      | ELC16B560L | 56                       | 0.051            |                     | 3.4                                                                  |                                |
|      | ELC16B680L | 68                       | 0.057            |                     | 3.2                                                                  |                                |
|      | ELC16B820L | 82                       | 0.064            |                     | 3.0                                                                  |                                |
|      | ELC16B101L | 100                      | 0.072            |                     | 2.6                                                                  |                                |
|      | ELC16B121L | 120                      | 0.080            |                     | 2.5                                                                  |                                |
|      | ELC16B151L | 150                      | 0.103            |                     | 2.2                                                                  |                                |
|      | ELC16B181L | 180                      | 0.115            |                     | 2.1                                                                  |                                |
|      | ELC16B221L | 220                      | 0.13             |                     | 1.9                                                                  |                                |
|      | ELC16B271L | 270                      | 0.17             |                     | 1.6                                                                  |                                |
|      | ELC16B331L | 330                      | 0.20             |                     | 1.5                                                                  |                                |
|      | ELC16B391L | 390                      | 0.25             |                     | 1.3                                                                  |                                |
|      | ELC16B471L | 470                      | 0.28             |                     | 1.2                                                                  |                                |
|      | ELC16B561L | 560                      | 0.38             |                     | 1.1                                                                  |                                |
|      | ELC16B681L | 680                      | 0.43             |                     | 1.0                                                                  |                                |
|      | ELC16B821L | 820                      | 0.58             |                     | 0.88                                                                 |                                |
|      | ELC16B102L | 1000                     | 0.66             |                     | 0.85                                                                 |                                |
|      | ELC16B122L | 1200                     | 0.74             |                     | 0.82                                                                 |                                |
|      | ELC16B152L | 1500                     | 0.87             |                     | 0.74                                                                 |                                |
|      | ELC16B182L | 1800                     | 1.22             |                     | 0.60                                                                 |                                |
|      | ELC16B222L | 2200                     | 1.38             |                     | 0.57                                                                 |                                |
|      | ELC16B272L | 2700                     | 1.57             |                     | 0.54                                                                 |                                |
|      | ELC16B332L | 3300                     | 2.0              |                     | 0.47                                                                 |                                |
|      | ELC16B392L | 3900                     | 2.4              |                     | 0.42                                                                 |                                |
|      | ELC16B472L | 4700                     | 3.3              |                     | 0.36                                                                 |                                |
|      | ELC16B562L | 5600                     | 3.7              |                     | 0.34                                                                 |                                |
|      | ELC16B682L | 6800                     | 4.2              |                     | 0.32                                                                 |                                |
|      | ELC16B822L | 8200                     | 5.6              |                     | 0.28                                                                 |                                |
|      | ELC16B103L | 10000                    | 6.4              |                     | 0.26                                                                 |                                |
|      | ELC16B123L | 12000                    | 7.3              |                     | 0.24                                                                 |                                |

\*Refer to former page

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### ■ Examples Type 18B

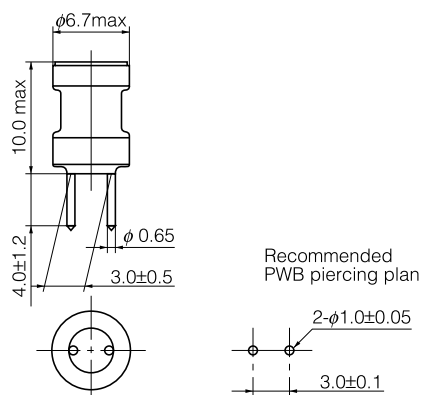
| Type | Part No.   | Inductance<br>( $\mu$ H) | Tolerance<br>(%) | Test Freq.<br>(kHz) | [at 20°C]<br>*DCR.<br>( $\Omega \pm 20\%$ ) | **[at 20°C]<br>IDC.<br>(Amax.) |
|------|------------|--------------------------|------------------|---------------------|---------------------------------------------|--------------------------------|
| 18B  | ELC18B3R3L | 3.3                      | $\pm 20$         | 10                  | 0.010                                       | 8.5                            |
|      | ELC18B3R9L | 3.9                      |                  |                     | 0.011                                       | 8.0                            |
|      | ELC18B4R7L | 4.7                      |                  |                     | 0.012                                       | 7.8                            |
|      | ELC18B5R6L | 5.6                      |                  |                     | 0.013                                       | 7.4                            |
|      | ELC18B6R8L | 6.8                      |                  |                     | 0.015                                       | 6.8                            |
|      | ELC18B8R2L | 8.2                      |                  |                     | 0.016                                       | 6.6                            |
|      | ELC18B100L | 10                       |                  |                     | 0.017                                       | 6.5                            |
|      | ELC18B120L | 12                       |                  |                     | 0.018                                       | 6.0                            |
|      | ELC18B150L | 15                       |                  |                     | 0.021                                       | 5.9                            |
|      | ELC18B180L | 18                       |                  |                     | 0.022                                       | 5.6                            |
|      | ELC18B220L | 22                       | $\pm 10$         |                     | 0.025                                       | 5.4                            |
|      | ELC18B270L | 27                       |                  |                     | 0.028                                       | 4.8                            |
|      | ELC18B330L | 33                       |                  |                     | 0.030                                       | 4.6                            |
|      | ELC18B390L | 39                       |                  |                     | 0.033                                       | 4.4                            |
|      | ELC18B470L | 47                       |                  |                     | 0.037                                       | 4.3                            |
|      | ELC18B560L | 56                       |                  |                     | 0.040                                       | 4.2                            |
|      | ELC18B680L | 68                       |                  |                     | 0.046                                       | 4.0                            |
|      | ELC18B820L | 82                       |                  |                     | 0.051                                       | 3.7                            |
|      | ELC18B101L | 100                      |                  |                     | 0.057                                       | 3.2                            |
|      | ELC18B121L | 120                      |                  |                     | 0.065                                       | 3.0                            |
|      | ELC18B151L | 150                      |                  |                     | 0.072                                       | 2.7                            |
|      | ELC18B181L | 180                      |                  |                     | 0.082                                       | 2.6                            |
|      | ELC18B221L | 220                      |                  |                     | 0.090                                       | 2.4                            |
|      | ELC18B271L | 270                      |                  |                     | 0.11                                        | 2.2                            |
|      | ELC18B331L | 330                      |                  |                     | 0.13                                        | 1.9                            |
|      | ELC18B391L | 390                      |                  |                     | 0.15                                        | 1.8                            |
|      | ELC18B471L | 470                      |                  |                     | 0.21                                        | 1.6                            |
|      | ELC18B561L | 560                      |                  |                     | 0.23                                        | 1.5                            |
|      | ELC18B681L | 680                      |                  |                     | 0.26                                        | 1.4                            |
|      | ELC18B821L | 820                      |                  |                     | 0.34                                        | 1.3                            |
|      | ELC18B102L | 1000                     |                  |                     | 0.39                                        | 1.1                            |
|      | ELC18B122L | 1200                     |                  |                     | 0.44                                        | 1.0                            |
|      | ELC18B152L | 1500                     |                  |                     | 0.58                                        | 0.85                           |
|      | ELC18B182L | 1800                     |                  |                     | 0.65                                        | 0.84                           |
|      | ELC18B222L | 2200                     |                  |                     | 0.88                                        | 0.75                           |
|      | ELC18B272L | 2700                     |                  |                     | 1.2                                         | 0.68                           |
|      | ELC18B332L | 3300                     |                  |                     | 1.4                                         | 0.60                           |
|      | ELC18B392L | 3900                     |                  |                     | 1.5                                         | 0.57                           |
|      | ELC18B472L | 4700                     |                  |                     | 1.7                                         | 0.55                           |
|      | ELC18B562L | 5600                     |                  |                     | 2.2                                         | 0.46                           |
|      | ELC18B682L | 6800                     |                  |                     | 2.8                                         | 0.45                           |
|      | ELC18B822L | 8200                     |                  |                     | 3.1                                         | 0.41                           |
|      | ELC18B103L | 10000                    |                  |                     | 3.9                                         | 0.36                           |

\*Refer to former page

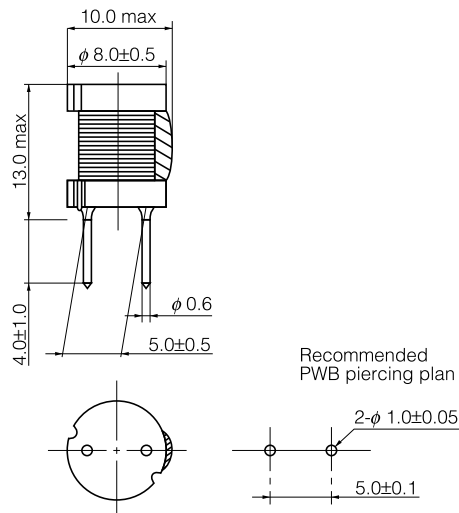
Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.  
Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.

■ Dimensions in mm (not to scale)

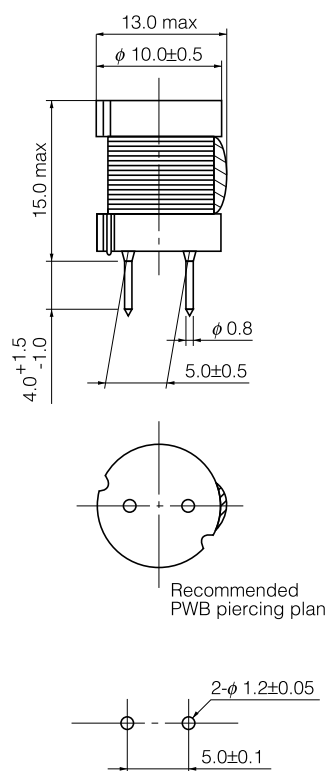
## ● Type 06D



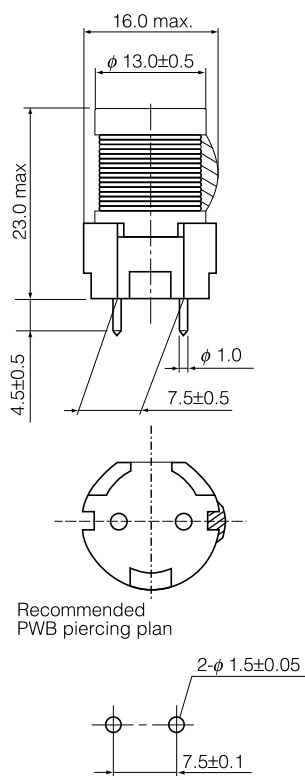
## ● Type 08D



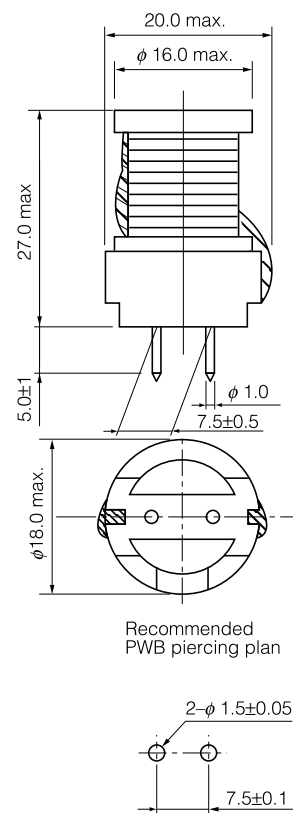
## ● Type 10D



## ● Type 16B



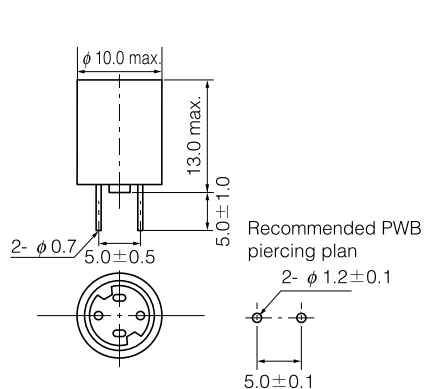
## ● Type 18B



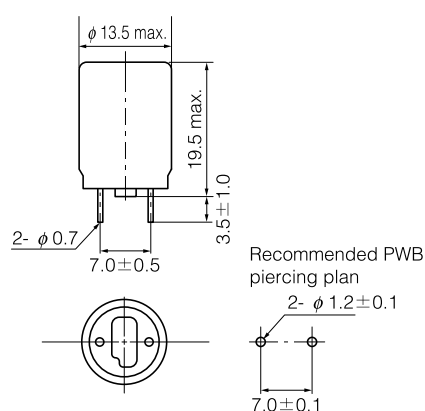
Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.

### ■ Dimensions in mm (not to scale)

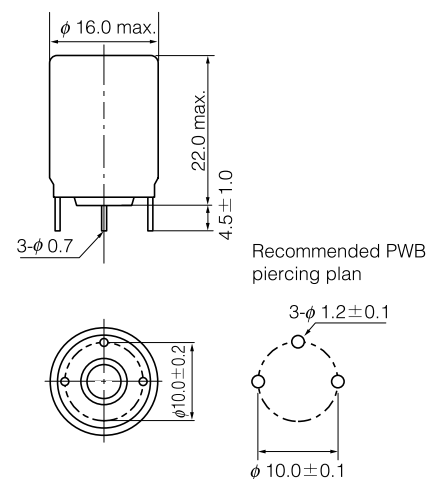
#### ● Type 10E



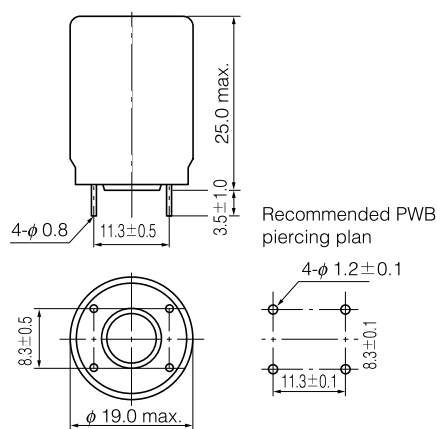
#### ● Type 12E



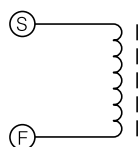
#### ● Type 16E



#### ● Type 18E



### ■ Connection Schematic





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