Peri	formance C	Characteristics	s by Series		
	Туре	Construction	Extermal Dimensions D×H (mm)	Inductance (µH) 0.1 1.0 10 100 1000 10000	Current Icc (A)
	09D *		<i>\$</i> 9.5×8.9 (with case)	2.2 10000	0.08 to 3.5
	11D *		∮11.5×13.9 (with case)	2.2 10000	0.16 to 5.3
Regular	12D		¢12.5×16.5	100 10000	0.27 to 1.9
	16B		¢16.0×23.0	3.3 10000	0.26 to 8.5
	18B		¢20.0×27.0	3.3 10000	0.36 to 8.5
	10E-L		¢10.0×13.0	3.9 8200	0.10 to 2.9
ld	12E-L		¢13.0×18.5	4.7 10000	0.13 to 4.4
Shield	15E-L		∮16.0×22.0 (3 pin terminal)	5.6 10000	0.30 to 5.4
	18E-L		¢19.0×25.1 (4 pin terminal)	5.6 10000	0.33 to 5.9

*: Taping Available

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. 02

Examples Type 09D						
	Part No.	Inductance (µH)	Tolerance (%)	Test Freq. (kHz)	R _{DC} .(Ω) [at 20 °C] (Tol.±20 %)	I _{DC} .* [at 20 °C] (A)max.
[Dimensions in mm]	ELC09D2R2DF	2.2			0.012	3.50
(not to scale)	ELC09D2R7□F	2.7			0.013	3.30
	ELC09D3R3DF	3.3			0.015	3.20
φ9.5 max.	ELC09D3R9DF	3.9			0.016	3.10
	ELC09D4R7□F	4.7			0.018	3.00
	ELC09D5R6□F	5.6	00		0.019	2.90
8.9 max.	ELC09D6R8□F	6.8	±20		0.021	2.80
	ELC09D8R2□F	8.2			0.024	2.60
	ELC09D100□F	10.0			0.027	2.50
	ELC09D120DF	12.0			0.031	2.30
2-\$0.6	ELC09D150DF	15.0			0.035	2.10
2-φ0.0_/	ELC09D180□F	18.0			0.038	2.00
	ELC09D220□F	22.0			0.051	1.80
	ELC09D270□F	27.0			0.058	1.60
	ELC09D330□F	33.0			0.081	1.40
	ELC09D390 F	39.0			0.087	1.30
	ELC09D470 F	47.0			0.110	1.20
	ELC09D560□F	56.0			0.130	1.10
Recommended PWB	ELC09D680□F	68.0	-	10	0.140	1.00
piercing plan	ELC09D820□F	82.0			0.160	0.90
	ELC09D101□F	100.0			0.200	0.82
	ELC09D121DF	120.0			0.250	0.77
	ELC09D151DF	150.0	-		0.320	0.74
2-ø1.00±0.05	ELC09D181□F	180.0			0.360	0.61
	ELC09D221 IF	220.0			0.410	0.58
5.0±0.1	ELC09D271□F	270.0			0.500	0.52
-* *	ELC09D331□F	330.0			0.650	0.49
	ELC09D391DF	390.0			0.860	0.46
	ELC09D471□F	470.0	±10		0.980	0.39
	ELC09D561□F	560.0			1.100	0.36
O second the O share still	ELC09D681□F	680.0			1.400	0.34
Connection Schematic	ELC09D821□F	820.0			1.600	0.30
	ELC09D102DF	1000.0			2.100	0.28
	ELC09D122DF	1200.0			2.400	0.23
S	ELC09D152DF	1500.0			2.800	0.21
\rightarrow	ELC09D182DF	1800.0]		3.800	0.19
, ⇒¦	ELC09D222DF	2200.0			4.400	0.17
	ELC09D272□F	2700.0			6.100	0.16
(F)	ELC09D332DF	3300.0			7.000	0.14
	ELC09D392DF	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
	ELC09D822DF	8200.0			16.600	0.09
	ELC09D103DF	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 (µH)	Tolerance (%)	Test Freq. (kHz)	R. _{DC} .(Ω) [at 20 °C] (Tol.±20 %)	I _{DC} .* [at 20 °C] (A)max.
[Dimensions in mm]	ELC11D2R2□F	2.2			0.013	5.30
(not to scale)	ELC11D2R7□F	2.7			0.014	5.10
	ELC11D3R3□F	3.3			0.015	4.90
μ φ11.5 max.	ELC11D3R9□F	3.9			0.016	4.80
	ELC11D4R7□F	4.7			0.018	4.70
	ELC11D5R6□F	5.6	00		0.020	4.60
13.9 max.	ELC11D6R8□F	6.8	±20		0.022	4.40
	ELC11D8R2□F	8.2			0.024	3.90
	ELC11D100 F	10.0			0.029	3.50
	ELC11D120 F	12.0			0.030	3.40
5.0 ± 0.5	ELC11D150□F	15.0			0.033	3.30
2	ELC11D180□F	18.0			0.037	3.10
	ELC11D220 F	22.0			0.040	2.80
	ELC11D270 F	27.0			0.048	2.70
	ELC11D330 F	33.0			0.051	2.60
	ELC11D390 F	39.0			0.057	2.50
I	ELC11D470□F	47.0			0.063	2.30
	ELC11D560□F	56.0			0.071	2.10
	ELC11D680□F	68.0		10	0.082	2.00
	ELC11D820□F	82.0			0.090	1.90
Recommended PWB	ELC11D101□F	100.0			0.120	1.80
piercing plan	ELC11D121	120.0			0.160	1.60
	ELC11D151	150.0			0.180	1.40
2 41 00 0 05	ELC11D181	180.0			0.200	1.30
2-ø1.00±0.05	ELC11D221	220.0			0.230	1.20
ΥΥΥ 	ELC11D271	270.0			0.320	1.10
	ELC11D331	330.0			0.350	1.00
	ELC11D391	390.0			0.400	0.95
	ELC11D471□F	470.0	±10		0.490	0.82
	ELC11D561□F	560.0	-		0.620	0.73
	ELC11D681	680.0			0.780	0.64
Connection Schematic	ELC11D821	820.0			0.870	0.62
	ELC11D102	1000.0			1.100	0.57
	ELC11D122	1200.0			1.200	0.52
	ELC11D152	1500.0			1.700	0.43
$\stackrel{\text{(s)}}{\longrightarrow} \uparrow$	ELC11D182	1800.0			2.000	0.40
\prec	ELC11D222	2200.0			2.300	0.38
51	ELC11D272	2700.0			2.800	0.34
¦	ELC11D332	3300.0	-		3.600	0.31
-	ELC11D392	3900.0			4.500	0.29
	ELC11D472	4700.0			5.200	0.26
	ELC11D562	5600.0			6.900	0.23
	ELC11D682	6800.0			7.800	0.20
	ELC11D822	8200.0			10.600	0.18
	ELC11D103	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 (µH)	Tolerance (%)	Test Freq. (kHz)	R _{DC} .(Ω) [at 20 °C] (Tol.±20 %)	I _{DC} .* [at 20 °C] (A)max.
[Dimensions in mm]	ELC12D101E	100			0.150	1.90
(not to scale)	ELC12D121E	120			0.170	1.78
14.0 max. ↓ 012.0±0.5	ELC12D151E	150			0.190	1.67
	ELC12D181E	180			0.210	1.58
ax.	ELC12D221E	220			0.230	1.55
16.5max	ELC12D271E	270			0.270	1.44
	ELC12D331E	330			0.300	1.34
	ELC12D391E	390			0.330	1.32
8.0∓ 17.5±0.5	ELC12D471E	470			0.380	1.25
	ELC12D561E	560			0.420	1.15
	ELC12D681E	680			0.460	0.98
	ELC12D821E	820	±10	10	0.650	0.94
	ELC12D102E	1000			0.720	0.87
	ELC12D122E	1200			0.830	0.86
Recommended PWB piercing plan	ELC12D152E	1500			1.270	0.64
2-\$\phi_1.20\pm 0.05	ELC12D182E	1800			1.330	0.63
	ELC12D222E	2200			1.500	0.60
7.5±0.1	ELC12D272E	2700			1.890	0.54
	ELC12D332E	3300			2.370	0.48
Connection Schematic	ELC12D392E	3900			2.830	0.45
	ELC12D472E	4700			3.190	0.41
\mathbf{z}	ELC12D562E	5600			4.080	0.34
\preceq	ELC12D682E	6800			5.740	0.29
E	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.

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. 02

Part No. Inductance (µH) Tolerance (µH) Test Freq. (µH2) Pres(µ) (µ1 co 20 C ¹⁰ (µ1 a 20 S ¹⁰) ber* (µ2 co C1 (µ1 a 20 S ¹⁰) Dimensions in mm] (not to scale) ELC16B3R3L 3.3 ±.25 10 0100 ELC16B4R7L 4.7 ELC16B4R8L 6.8 ELC16B4R8L 6.2 ELC16B4R2L 8.20 ELC16B4R2L 8.2	Examples Type 16B						
(not to scale) ELC1683R9L 3.9 ±25 16.0 max ELC1685R1 4.7 ELC1685R2L 8.2 ELC1685R2L 2.0 ELC1685R2L 8.0 ELC1685R2L 8.0 0.033 4.00 0.042 3.90 ELC1685R2L 8.0 ELC1685R2L 8.0 ELC1685R2L 8.0 ELC1685R2L 20.0		Part No.				[at 20 °C] (Tol.±30 %)**	[at 20 °C]
(Int. 0.5.046) ELC1683491, 4.7 10.0 max, • 13.0 max, • 13.0 max, • 13.0 max, • 13.0 max, • 13.0 max, • 10.0 max, • 10		ELC16B3R3L	3.3	1.25			8.50
10.000 ELC16BSR6L 5.6 ELC16BSR6L 6.8 ELC16BSR0L 10.0 Consection 10.016** 7.50.5 ELC16BS00L ELC16BS20L 22.0 ELC16BS20L 23.0 ELC16BS20L 82.0 ELC16BS20L 82.0 ELC16BS21L 100.0 ELC16BS21L 220.0 ELC16BS21L 220.0 ELC16BS21L 220.0 ELC16BS21L 500.0	(not to scale)	ELC16B3R9L	3.9	±23		0.013**	8.00
P130±00		ELC16B4R7L	4.7			0.015**	7.80
LC10B070L 0.0 LC10B070L 0.0 LC10B070L 0.0 LC10B070L 0.0 LC10B070L 0.0 LC10B070L 10.0 LC10B070L 10.0 LC10B170L 10.0 LC10B170L 10.0 LC10B170L 12.0 LC10B170L 12.0 LC10B170L 12.0 LC10B170L 12.0 LC10B170L 12.0 LC10B270L 27.0 LC10B270L 27.0 LC10B270L 27.0 LC10B270L 27.0 LC10B270L 27.0 LC10B270L 27.0 LC10B271L 120.0 LC10B271L 120.0 LC10B271L 270.0 LC10B272L 270.0	16.0 max.	ELC16B5R6L	5.6			0.016**	7.40
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	∮ 13.0±0.5	ELC16B6R8L	6.8			0.018	6.70
Provide ELC16B100L 10.0 ELC16B100L 12.0 ELC16B120L 12.0 ELC16B120L 12.0 ELC16B120L 12.0 ELC16B120L 22.0 ELC16B270L 27.0 ELC16B270L 27.0 ELC16B30L 33.0 ELC16B30L 39.0 ELC16B30L 39.0 ELC16B30L 80.0 ELC16B30L 80.0 ELC16B11 100.0 ELC16B121L 120.0 ELC16B121L 120.0 ELC16B271L 220.0 ELC16B271L 220.0 ELC16B31L 30.0 ELC16B271L 220.0 ELC16B31L 30.0 ELC16B31L 30.0 ELC16B271L 220.0 ELC16B31L 30.0 ELC16B31L 30.0 ELC16B31L 30.0 ELC16B31L 30.0 ELC16B31L 30.0 ELC16B31L 680.0 ELC16		ELC16B8R2L	8.2	1.20		0.019	6.10
P 0.028 5.10 ELC16B120L 22.0 0.031 4.60 ELC16B270L 27.0 0.039 4.00 ELC16B330L 33.0 0.042 3.90 ELC16B820L 82.0 0.064 3.00 ELC16B520L 82.0 0.064 3.00 ELC16B520L 82.0 0.064 3.00 ELC16B520L 82.0 0.0115 2.10 ELC16B520L 82.0 0.064 3.00 ELC16B520L 82.0 0.013 2.20 ELC16B521L 150.0 0.064 3.00 ELC16B521L 220.0 0.013 2.20 ELC16B521L 220.0 ELC16B521 20.0 ELC16B521L 390.0 ELC16B521 50.0 ELC16B521L 500.0 0.280 1.20 0.280 1.20 ELC16B521 200.0 ELC16B521L 500.0 0.280 1.20 0.660 0.85 0.740 0.82		ELC16B100L	10.0	±20		0.022	5.60
P 0.028 5.10 ELC16B120L 22.0 0.031 4.60 ELC16B270L 27.0 0.039 4.00 ELC16B330L 33.0 0.042 3.90 ELC16B820L 82.0 0.064 3.00 ELC16B520L 82.0 0.064 3.00 ELC16B520L 82.0 0.064 3.00 ELC16B520L 82.0 0.0115 2.10 ELC16B520L 82.0 0.064 3.00 ELC16B520L 82.0 0.013 2.20 ELC16B521L 150.0 0.064 3.00 ELC16B521L 220.0 0.013 2.20 ELC16B521L 220.0 ELC16B521 20.0 ELC16B521L 390.0 ELC16B521 50.0 ELC16B521L 500.0 0.280 1.20 0.280 1.20 ELC16B521 200.0 ELC16B521L 500.0 0.280 1.20 0.660 0.85 0.740 0.82		ELC16B120L	12.0			0.023	5.50
P 0.028 5.10 ELC16B120L 22.0 0.031 4.60 ELC16B270L 27.0 0.039 4.00 ELC16B330L 33.0 0.042 3.90 ELC16B820L 82.0 0.064 3.00 ELC16B520L 82.0 0.064 3.00 ELC16B520L 82.0 0.064 3.00 ELC16B520L 82.0 0.0115 2.10 ELC16B520L 82.0 0.064 3.00 ELC16B520L 82.0 0.013 2.20 ELC16B521L 150.0 0.064 3.00 ELC16B521L 220.0 0.013 2.20 ELC16B521L 220.0 ELC16B521 20.0 ELC16B521L 390.0 ELC16B521 50.0 ELC16B521L 500.0 0.280 1.20 0.280 1.20 ELC16B521 200.0 ELC16B521L 500.0 0.280 1.20 0.660 0.85 0.740 0.82		ELC16B150L	15.0			0.026	5.40
Product 0.034 4.30 Connection Schematic ELC16B270L 27.0 ELC16B390L 33.0 ELC16B390L 39.0 ELC16B470L 47.0 0.042 3.90 ELC16B50L 56.0 ELC16B50L 56.0 ELC16B820L 82.0 ELC16B101L 100.0 ELC16B121L 120.0 ELC16B11 150.0 ELC16B121L 120.0 ELC16B221L 220.0 ELC16B31L 330.0 ELC16B31L 330.0 ELC16B31L 390.0 ELC16B391L 390.0 ELC16B391L 390.0 ELC16B391L 390.0 ELC16B391L 390.0 ELC16B391L 390.0 ELC16B391L 1000.0 ELC16B391L 390.0 ELC16B391L 1000.0 ELC16B391L 390.0 ELC16B391L 1000.0 ELC16B391L 100.0 ELC16B391L 1000.0 ELC16B392L 120.0 ELC16B392L 1200.0 ELC16B392L 200.0 ELC16B392L <t< td=""><td></td><td>ELC16B180L</td><td>18.0</td><td></td><td></td><td>0.028</td><td>5.10</td></t<>		ELC16B180L	18.0			0.028	5.10
Image: Connection Schematic ELC16B330L 33.0 ELC16B330L 33.0 ELC16B330L 39.0 ELC16B330L 39.0 ELC16B30L 39.0 ELC16B30L 66.0 ELC16B820L 68.0 ELC16B101L 100.0 ELC16B11L 120.0 ELC16B271L 220.0 ELC16B271L 220.0 ELC16B271L 270.0 ELC16B821L 300.0 ELC16B821L 220.0 ELC16B821L 220.0 ELC16B821L 220.0 ELC16B821L 220.0 ELC16B821L 820.0 ELC16B821L 820.0 ELC16B821L 820.0 ELC16B821L 820.0 ELC16B822L 1200.0 ELC16B332L 3300.0 ELC16B332L 3300.0 ELC16B332L 3300.0 ELC16B332L 3300.0 ELC16B332L 3300.0 ELC16B332L 3300.0 ELC16B332L		ELC16B220L	22.0			0.031	4.60
Connection Schematic ELC16B330L 33.0 ELC16B390L 39.0 ELC16B390L 39.0 ELC16B470L 47.0 ELC16B470L 47.0 ELC16B470L 47.0 ELC16B470L 47.0 ELC16B470L 47.0 ELC16B470L 47.0 ELC16B470L 47.0 ELC16B470L 47.0 ELC16B191L 100.0 ELC16B191L 120.0 ELC16B191L 120.0 ELC16B191L 150.0 ELC16B191L 150.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B391L 330.0 ELC16B321L 1000.0 ELC16B122L 1200.0 ELC16B122L 1200.0 ELC16B122L 1200.0 ELC16B122L 1200.0 ELC16B122L 1300.0 ELC16B322L 2200.0 ELC16B322L 3300.0 ELC16B322L 3300.0 ELC16B322L 3300.0 ELC16B322L 3300.0 ELC16B522L 5600.0 2.400 0.422 2.400 0.422 2.400 0.422 2.400 0.422 3.300 0.334		ELC16B270L	27.0			0.034	4.30
ELC16B470L 47.0 ELC16B470L 47.0 ELC16B50L 56.0 ELC16B50L 68.0 ELC16B680L 68.0 ELC16B680L 82.0 ELC16B101L 100.0 ELC16B11L 120.0 ELC16B11L 120.0 ELC16B11L 120.0 ELC16B121L 220.0 ELC16B271L 270.0 ELC16B271L 270.0 ELC16B271L 270.0 ELC16B31L 390.0 ELC16B271L 470.0 ELC16B271L 270.0 ELC16B271L 470.0 ELC16B27L 270.0 ELC16B27L 270.0 ELC16B27L 100.0 ELC16B27L 100.0 ELC16B12L 1000.0 ELC16B12L 100.0 ELC16B12L 1200.0 ELC16B12L 1200.0 ELC16B12L 1200.0 ELC16B12L 1200.0 ELC16B12L 1200.0 ELC16B12L<		ELC16B330L	33.0			0.039	4.00
ELC16B560L 56.0 ELC16B680L 68.0 ELC16B680L 82.0 ELC16B101L 100.0 ELC16B12L 120.0 ELC16B151L 150.0 ELC16B151L 150.0 ELC16B151L 120.0 ELC16B151L 220.0 ELC16B221L 220.0 ELC16B31L 330.0 ELC16B31L 300.0 ELC16B31L 300.0 ELC16B51L 20.0 ELC16B31L 30.0 ELC16B31L 560.0 ELC16B32L 20.0 ELC16B32L 100.0 ELC16B12L 100.0 ELC16B12L 100.0 ELC16B12L 100.0 ELC16B12L 120.0 ELC16B12L 120.0 ELC16B12L <t< td=""><td>4 → 7.5±0.5</td><td>ELC16B390L</td><td>39.0</td><td></td><td></td><td>0.042</td><td>3.90</td></t<>	4 → 7.5±0.5	ELC16B390L	39.0			0.042	3.90
ELC16B680L 68.0 ELC16B820L 82.0 ELC16B11L 100.0 ELC16B11L 120.0 ELC16B21L 220.0 ELC16B21L 220.0 ELC16B621L 820.0 ELC16B621L 820.0 ELC16B621L 820.0 ±10 0.130 0.260 1.30 0.280 1.20 0.280 1.20 0.660 0.85 0.740 0.82 ELC16B12L 1000.0 ELC16B12L 120.0 ELC16B12L 120.0 ELC16B12L 120.0 ELC16B12L 120.0 ELC16B12L 120.0 ELC16B22L 200.0		ELC16B470L	47.0			0.045	3.80
ELC16B820L 82.0 Recommended PWB piercing plan ELC16B101L 100.0 ELC16B121L 120.0 ELC16B121L 120.0 ELC16B121L 120.0 ELC16B121L 120.0 ELC16B121L 120.0 ELC16B221L 220.0 ELC16B221L 220.0 ELC16B31L 330.0 ELC16B31L 330.0 ELC16B31L 330.0 ELC16B561L 560.0 ELC16B561L 560.0 ELC16B561L 560.0 ELC16B512L 1000.0 ELC16B512L 1000.0 ELC16B512L 1000.0 ELC16B512L 120.0 ELC16B512L 120.0 ELC16B522L 2200.0 ELC16B32L 3300.0 ELC16B32L		ELC16B560L	56.0			0.051	3.40
ELC16B101L 100.0 Becommended PWB piercing plan ELC16B121L 120.0 ELC16B151L 150.0 ELC16B151L 150.0 ELC16B221L 220.0 ELC16B221L 22.0 ELC16B21L 270.0 ELC16B31L 330.0 ELC16B31L 330.0 ELC16B31L 300.0 ELC16B561L 560.0 0.250 1.30 0.250 1.30 0.280 1.20 0.250 1.30 0.280 1.20 0.100 ELC16B561L 560.0 0.280 1.20 0.250 1.30 1.00 0.280 1.20 0.250 1.30 0.280 1.20 0.380 1.10 ELC16B821L 560.0 0 4.30 1.00 0.430 1.00 ELC16B821L 1000.0 ELC16B122L 1200.0 0.660 0.85 0.740 0.82 ELC16B122L 1200.0 ELC16B32L 3300.0 1.220 0.60 ELC16B32L 3300.0		ELC16B680L	68.0			0.057	3.20
Becommended PWB piercing plan ELC16B121L 120.0 ELC16B151L 150.0 0.080 2.50 ELC16B151L 150.0 0.103 2.20 ELC16B121L 220.0 0.115 2.10 ELC16B271L 270.0 0.130 1.90 ELC16B331L 330.0 ELC16B391L 390.0 ELC16B391L 470.0 ELC16B561L 560.0 ELC16B681L 680.0 0.280 1.20 ELC16B122L 1200.0 0.430 1.00 ELC16B122L 1200.0 0.580 0.88 ELC16B122L 1200.0 0.660 0.85 ELC16B122L 1200.0 0.740 0.82 ELC16B122L 1200.0 0.1570 0.54 ELC16B122L 1200.0 1.220 0.60 ELC16B122L 1200.0 1.220 0.60 ELC16B122L 1200.0 1.220 0.60 ELC16B122L 1200.0 1.220 0.60 ELC16B22L 200.0		ELC16B820L	82.0			0.064	3.00
Becommended PWB piercing plan ELC16B151L 150.0 ELC16B181L 180.0 0.103 2.20 ELC16B221L 220.0 0.115 2.10 ELC16B221L 220.0 0.103 1.90 ELC16B221L 220.0 0.103 1.90 ELC16B321L 330.0 ELC16B331L 330.0 ELC16B331L 330.0 ELC16B391L 390.0 ELC16B471L 470.0 ELC16B561L 560.0 ELC16B681L 680.0 0.280 1.20 ELC16B12L 100.0 0.740 0.88 0.660 0.85 0.740 0.82 0.740 0.82 0.740 0.82 0.870 0.74 0.84 1.220 0.660 1.380 0.57 1.570 0.54 2.000 1.570 0.54 ELC16B32L 200.0 ELC16B32L 3300.0 2.400 0.42 3.300 0.36 ELC16B32L 300.0 ELC16B32L 560.0 3.700		ELC16B101L	100.0		10	0.072	2.60
piercing plan ELC16B151L 150.0 ELC16B151L 180.0 10 0.103 2.20 ELC16B181L 180.0 10 0.115 2.10 ELC16B221L 220.0 10 0.130 1.90 ELC16B271L 270.0 10 0.130 1.90 ELC16B331L 330.0 10 0.103 1.90 ELC16B321L 220.0 1.50 0.250 1.30 ELC16B561L 560.0 1.20 0.280 1.20 ELC16B812L 820.0 100.0 0.430 1.00 ELC16B122L 1200.0 1.20 0.580 0.88 ELC16B122L 1200.0 1.220 0.60 0.85 Connection Schematic ELC16B122L 1200.0 1.220 0.60 ELC16B122L 1200.0 1.570 0.54 1.220 0.60 ELC16B22L 2200.0 1.570 0.54 2.000 0.430 1.00 ELC16B32L 300.0 1.570		ELC16B121L	120.0	-		0.080	2.50
2-#1.50±0.05 ELC16B221L 220.0 2.10 0.130 1.90 0.170 1.60 0.200 1.50 0.200 1.50 0.250 1.30 0.280 1.20 0.280 1.20 0.430 1.00 ELC16B821L 820.0 ELC16B821L 820.0 ELC16B821L 820.0 ELC16B12L 1000.0 ELC16B12L 1200.0 ELC16B12L 1200.0 ELC16B12L 1200.0 ELC16B12L 1500.0 ELC16B12L 1500.0 ELC16B12L 1500.0 ELC16B221L 2200.0 ELC16B221L 2200.0 ELC16B221L 2200.0 ELC16B221L 2200.0 ELC16B32L 3300.0 ELC16B822L 3200.0 ELC16B822L 820.0 ELC16B822L 820.0 ELC16B822L 820.0 ELC16B82L 680.0 ELC16B822L 820.0 ELC16B822L ELC16B82		ELC16B151L	150.0			0.103	2.20
2-01.50±0.05 ELC16B271L 270.0		ELC16B181L	180.0			0.115	2.10
$ \underbrace{ \begin{array}{c} 2-\phi1.50\pm0.05 \\ -\phi-\frac{1}{7.5\pm0.1} \end{array}}_{(7.5\pm0.1)} \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		ELC16B221L	220.0			0.130	1.90
$ \begin{array}{c} 2-\phi 1.50\pm0.05 \\ + + \\$		ELC16B271L	270.0			0.170	1.60
$ \begin{array}{c} \begin{array}{c} 1 \\ \hline \\$		ELC16B331L	330.0			0.200	1.50
ELC16B561L 560.0 0.380 1.10 ELC16B681L 680.0 ELC16B821L 820.0 ELC16B821L 820.0 ELC16B102L 1000.0 ELC16B12L 1200.0 ELC16B12L 1500.0 ELC16B12L 1800.0 ELC16B22L 2200.0 ELC16B22L 2200.0 ELC16B32L 3300.0 ELC16B32L 3300.0 ELC16B32L 3300.0 ELC16B562L 5600.0 ELC16B682L 6800.0 ELC16B822L 8200.0	$2-\phi 1.50\pm 0.05$	ELC16B391L	390.0			0.250	1.30
Image: 17.5±0.1 ELC16B681L 680.0 ELC16B821L 820.0 0.430 1.00 ELC16B102L 1000.0 0.660 0.85 ELC16B12L 1200.0 0.740 0.82 Connection Schematic ELC16B152L 1500.0 0.740 0.82 ELC16B182L 1800.0 ELC16B182L 1800.0 ELC16B222L 2200.0 1.380 0.57 ELC16B32L 3300.0 ELC16B332L 3300.0 ELC16B332L 3300.0 2.400 0.42 ELC16B472L 4700.0 3.300 0.36 ELC16B562L 5600.0 3.700 0.34 ELC16B822L 8200.0 5.600 0.28		ELC16B471L	470.0	±10		0.280	1.20
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 0.600 0.870 0.74 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 2.400 0.42 ELC16B392L 3900.0 2.400 0.42 ELC16B562L 5600.0 3.700 0.34 ELC16B822L 8200.0 5.600 0.28		ELC16B561L	560.0			0.380	1.10
Connection Schematic ELC16B102L 1000.0 0.660 0.85 ELC16B122L 1200.0 0.740 0.82 ELC16B152L 1500.0 0.740 0.870 0.74 ELC16B182L 1800.0 1.220 0.60 1.380 0.57 ELC16B272L 2700.0 ELC16B322L 3300.0 1.570 0.54 ELC16B392L 3900.0 ELC16B392L 3900.0 2.400 0.42 ELC16B562L 5600.0 ELC16B682L 6800.0 3.700 0.34 ELC16B822L 820.0 5.600 0.28		ELC16B681L	680.0			0.430	1.00
Connection Schematic 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 ELC16B332L 3300.0 ELC16B332L 3300.0 ELC16B392L 3900.0 2.400 0.42 ELC16B562L 5600.0 3.700 0.34 ELC16B822L 8200.0 5.600 0.28		ELC16B821L	820.0			0.580	0.88
Connection Schematic ELC16B152L 1500.0 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 ELC16B562L 5600.0 3.300 0.36 ELC16B562L 5600.0 3.700 0.32 ELC16B822L 8200.0 5.600 0.28		ELC16B102L	1000.0			0.660	0.85
S 1.220 0.60 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 ELC16B822L 8200.0 5.600 0.28		ELC16B122L	1200.0			0.740	0.82
S ELC16B222L 2200.0 ELC16B272L 2700.0 ELC16B332L 3300.0 ELC16B472L 4700.0 ELC16B562L 5600.0 ELC16B682L 6800.0 ELC16B822L 8200.0	Connection Schematic	ELC16B152L	1500.0			0.870	0.74
S ELC16B272L 2700.0 ELC16B332L 3300.0 ELC16B392L 3900.0 ELC16B472L 4700.0 ELC16B562L 5600.0 ELC16B682L 6800.0 ELC16B822L 8200.0		ELC16B182L	1800.0			1.220	0.60
S 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 ELC16B822L 8200.0 5.600 0.28		ELC16B222L	2200.0			1.380	0.57
ELC16B332L 3300.0 ELC16B332L 3300.0 ELC16B392L 3900.0 ELC16B472L 4700.0 ELC16B562L 5600.0 ELC16B682L 6800.0 ELC16B822L 8200.0		ELC16B272L	2700.0			1.570	0.54
ELC16B472L 4700.0 ELC16B562L 5600.0 ELC16B682L 6800.0 ELC16B822L 8200.0		ELC16B332L	3300.0			2.000	0.47
ELC16B562L 5600.0 3.700 0.34 ELC16B682L 6800.0 4.200 0.32 ELC16B822L 8200.0 5.600 0.28	\prec :	ELC16B392L	3900.0			2.400	0.42
ELC16B682L 6800.0 4.200 0.32 ELC16B822L 8200.0 5.600 0.28	ζį	ELC16B472L	4700.0			3.300	0.36
ELC16B822L 8200.0 5.600 0.28	Ē ¦	ELC16B562L	5600.0			3.700	0.34
		ELC16B682L	6800.0			4.200	0.32
ELC16B103L 10000.0 6.400 0.26		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.

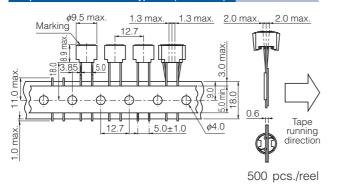
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

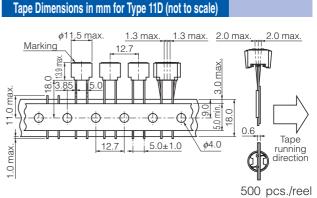
Examples Type 18B						
	Part No.	Inductance (µH)	Tolerance (%)	Test Freq. (kHz)	R _{DC} .(Ω) [at 20 °C] (Tol.±20 %)	I _{DC} .* [at 20 °C] (A)max.
[Dimensions in mm]	ELC18B3R3L	3.3			0.010	8.50
(not to scale)	ELC18B3R9L	3.9			0.011	8.00
	ELC18B4R7L	4.7			0.012	7.80
20.0 max.	ELC18B5R6L	5.6			0.013	7.40
φ 16.0 max.	ELC18B6R8L	6.8	00		0.015	6.80
	ELC18B8R2L	8.2	±20		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			0.030	4.60
$\overrightarrow{\varphi}$	ELC18B390L	39.0			0.033	4.40
7.5±0.5	ELC18B470L	47.0			0.037	4.30
	ELC18B560L	56.0			0.040	4.20
	ELC18B680L	68.0			0.046	4.00
	ELC18B820L	82.0		10	0.040	3.70
	ELC18B101L	100.0			0.057	3.20
I	ELC18B101L					
Recommended PWB		120.0			0.065	3.00
piercing plan	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
0 + 1 50 - 0.05	ELC18B331L	330.0			0.130	1.90
2-φ 1.50±0.05	ELC18B391L	390.0			0.150	1.80
	ELC18B471L	470.0	±10		0.210	1.60
7.5±0.1	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
Connection Schematic	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
$ \ge $	ELC18B332L	3300.0			1.400	0.60
\prec :	ELC18B392L	3900.0			1.500	0.57
i	ELC18B472L	4700.0			1.700	0.55
(F) ¦	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.

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.

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





▲ Safety Precautions

- When using our products, no matter what sort of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this catalog are subject to change without prior notice.
- Do not use the products beyond the specifications described in this catalog.
- This catalog explains the quality and performance of the products as individual components. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.
- * Systems equipped with a protection circuit and a protection device
- * Systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault

\triangle Precautions for use

1. Rated current

The rated current is defined as the smaller value of either the current value when the inductance drops 10 % down from its initial point, or when the average temperature of coil interior rises 45 °C up on power source. Do not operate these coils beyond the specified rated current.

2. Mounting

- O cores may be damaged when excessive force or shock is applied.
- Do not use products which may have been dropped.
- (2) Be careful not to make contact with other parts and consider possible interaction between coils due to magnetic interference.
- ③ Be careful of being too close to heat-radiating parts (high temperature).
- ④ Do not bend the pin-terminals during assembly.
 - The pin-terminals must connect correctly.
 - Do not apply them a shock to avoid causing an open or short circuit condition.
- ⑤ The float on PWB must not be after mounting.

3. Soldering

① Use flux which will not effect copper wire. (Be sure to use proper amounts of chloride, pH and other solvents)
② When using a soldering iron, wait at least 3 minutes before attempting to re-solder.

4. Storage

- ① Avoid high temperatures, high moisture, gases and magnetic fields.
- ② For long term storage of more than 1 year, use the prod ucts only after inspecting their outer structure. (Look for possible rusting of the core and oxidation of the lead wire, which would affect its solderability.)

<Package markings>

Package markings include the product number, quantity, and country of origin. In principle, the country of origin should be indicated in English.