

LXZ Series

- Adoption of innovative electrolyte and new technologies
- Very low impedance at high frequency
- Endurance with ripple current: 2,000 to 8,000 hours at 105°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

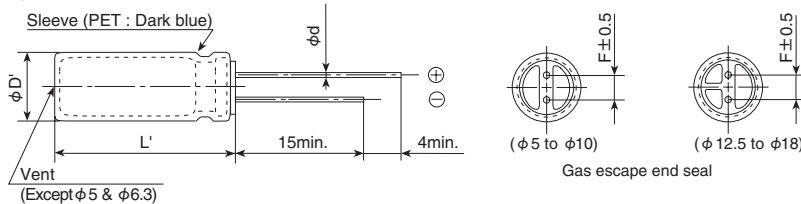


SPECIFICATIONS

Items	Characteristics																								
Category	-55 to +105°C																								
Temperature Range																									
Rated Voltage Range	6.3 to 63V _{dc}																								
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)																								
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)																								
Dissipation Factor (tan δ)	<table border="1"> <tr> <td>Rated voltage (V_{dc})</td> <td>6.3V</td> <td>10V</td> <td>16V</td> <td>25V</td> <td>35V</td> <td>50V</td> <td>63V</td> </tr> <tr> <td>tan δ (Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> </tr> </table> <p>When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)</p>	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08								
Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V																		
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08																		
Endurance	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105°C.</p> <table border="1"> <tr> <td>Time</td> <td>φ5 & 6.3 : 2,000hours</td> <td>φ8 : 3,000hours</td> <td>φ10 : 5,000hours</td> <td>φ12.5 : 7,000hours</td> <td>φ16 & 18 : 8,000hours</td> </tr> <tr> <td>Capacitance change</td> <td colspan="5">≤ ±20% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td colspan="5">≤ 200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="5">≤ The initial specified value</td> </tr> </table>	Time	φ5 & 6.3 : 2,000hours	φ8 : 3,000hours	φ10 : 5,000hours	φ12.5 : 7,000hours	φ16 & 18 : 8,000hours	Capacitance change	≤ ±20% of the initial value					D.F. (tan δ)	≤ 200% of the initial specified value					Leakage current	≤ The initial specified value				
Time	φ5 & 6.3 : 2,000hours	φ8 : 3,000hours	φ10 : 5,000hours	φ12.5 : 7,000hours	φ16 & 18 : 8,000hours																				
Capacitance change	≤ ±20% of the initial value																								
D.F. (tan δ)	≤ 200% of the initial specified value																								
Leakage current	≤ The initial specified value																								
Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>≤ ±20% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>≤ 200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ The initial specified value</td> </tr> </table>	Capacitance change	≤ ±20% of the initial value	D.F. (tan δ)	≤ 200% of the initial specified value	Leakage current	≤ The initial specified value																		
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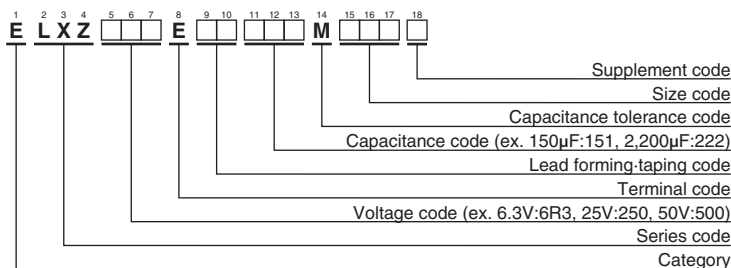
DIMENSIONS [mm]

Terminal Code : E



φD	5	6.3	8	10	12.5	16	18
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φD'	φD+0.5max.						
L'	L+1.5max.						

PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"



STANDARD RATINGS

WV (Vdc)	Cap (µF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA rms/105°C, 100kHz)	Part No.	WV (Vdc)	Cap (µF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA rms/105°C, 100kHz)	Part No.		
			20°C	-10°C						20°C	-10°C				
6.3	150	5×11.5	0.50	1.0	175	ELXZ6R3E□□151MEB5D	16	2,700	16×20	0.029	0.058	2,210	ELXZ160E□□272ML20S		
	330	6.3×11.5	0.25	0.50	290	ELXZ6R3E□□331MFB5D		3,300	12.5×35	0.022	0.044	2,510	ELXZ160E□□332MK35S		
	470	6.3×15	0.18	0.36	400	ELXZ6R3E□□471MF15D		3,900	12.5×40	0.017	0.034	2,870	ELXZ160E□□392MK40S		
	680	8×12	0.12	0.24	555	ELXZ6R3E□□681MH12D		3,900	16×25	0.022	0.044	2,560	ELXZ160E□□392ML25S		
	820	10×12.5	0.090	0.18	760	ELXZ6R3E□□821MJC5S		3,900	18×20	0.028	0.056	2,490	ELXZ160E□□392MM20S		
	1,000	8×15	0.090	0.18	730	ELXZ6R3E□□102MH15D		4,700	16×30	0.019	0.038	3,010	ELXZ160E□□472ML30S		
	1,200	8×20	0.080	0.16	810	ELXZ6R3E□□122MH20D		4,700	18×25	0.020	0.040	2,740	ELXZ160E□□472MM25S		
	1,200	10×16	0.068	0.136	1,050	ELXZ6R3E□□122MJ16S		5,600	16×35	0.017	0.034	3,150	ELXZ160E□□562ML35S		
	1,500	10×20	0.052	0.104	1,220	ELXZ6R3E□□152MJ20S		5,600	18×30	0.018	0.036	3,330	ELXZ160E□□562MM30S		
	2,200	10×25	0.045	0.090	1,440	ELXZ6R3E□□222MJ25S		6,800	16×40	0.015	0.030	3,710	ELXZ160E□□682ML40S		
	2,700	10×30	0.037	0.074	1,690	ELXZ6R3E□□272MJ30S		8,200	18×35	0.016	0.032	3,680	ELXZ160E□□822MM35S		
	3,300	12.5×20	0.038	0.076	1,660	ELXZ6R3E□□332MK20S		10,000	18×40	0.015	0.030	3,800	ELXZ160E□□103MM40S		
	3,900	12.5×25	0.030	0.060	1,950	ELXZ6R3E□□392MK25S									
	4,700	12.5×30	0.025	0.050	2,310	ELXZ6R3E□□472MK30S									
	5,600	12.5×35	0.022	0.044	2,510	ELXZ6R3E□□562MK35S									
	5,600	16×20	0.029	0.058	2,210	ELXZ6R3E□□562ML20S									
	6,800	12.5×40	0.017	0.034	2,870	ELXZ6R3E□□682MK40S									
	6,800	16×25	0.022	0.044	2,560	ELXZ6R3E□□682ML25S									
	6,800	18×20	0.028	0.056	2,490	ELXZ6R3E□□682MM20S									
	8,200	16×30	0.019	0.038	3,010	ELXZ6R3E□□822ML30S									
10,000	16×35	0.017	0.034	3,150	ELXZ6R3E□□103ML35S										
10,000	18×25	0.020	0.040	2,740	ELXZ6R3E□□103MM25S										
12,000	16×40	0.015	0.030	3,710	ELXZ6R3E□□123ML40S										
12,000	18×30	0.018	0.036	3,330	ELXZ6R3E□□123MM30S										
15,000	18×35	0.016	0.032	3,680	ELXZ6R3E□□153MM35S										
18,000	18×40	0.015	0.030	3,800	ELXZ6R3E□□183MM40S										
10	100	5×11.5	0.50	1.0	175	ELXZ100E□□101MEB5D	25	47	5×11.5	0.50	1.0	175	ELXZ250E□□470MEB5D		
	220	6.3×11.5	0.25	0.50	290	ELXZ100E□□221MFB5D		100	6.3×11.5	0.25	0.50	290	ELXZ250E□□101MFB5D		
	330	6.3×15	0.18	0.36	400	ELXZ100E□□331MF15D		150	6.3×15	0.18	0.36	400	ELXZ250E□□151MF15D		
	470	8×12	0.12	0.24	555	ELXZ100E□□471MH12D		220	8×12	0.12	0.24	555	ELXZ250E□□221MH12D		
	680	8×15	0.090	0.18	730	ELXZ100E□□681MH15D		330	8×15	0.090	0.18	730	ELXZ250E□□331MH15D		
	680	10×12.5	0.090	0.18	760	ELXZ100E□□681MJC5S		330	10×12.5	0.090	0.18	760	ELXZ250E□□331MJC5S		
	1,000	8×20	0.080	0.16	810	ELXZ100E□□102MH20D		390	8×20	0.080	0.16	810	ELXZ250E□□391MH20D		
	1,000	10×16	0.068	0.136	1,050	ELXZ100E□□102MJ16S		470	10×16	0.068	0.136	1,050	ELXZ250E□□471MJ16S		
	1,200	10×20	0.052	0.104	1,220	ELXZ100E□□122MJ20S		680	10×20	0.052	0.104	1,220	ELXZ250E□□681MJ20S		
	1,500	10×25	0.045	0.090	1,440	ELXZ100E□□152MJ25S		820	10×25	0.045	0.090	1,440	ELXZ250E□□821MJ25S		
	1,800	10×30	0.037	0.074	1,690	ELXZ100E□□182MJ30S		1,000	10×30	0.037	0.074	1,690	ELXZ250E□□102MJ30S		
	2,200	10×30	0.037	0.074	1,690	ELXZ100E□□222MJ30S		1,000	12.5×20	0.038	0.076	1,660	ELXZ250E□□102MK20S		
	2,200	12.5×20	0.038	0.076	1,660	ELXZ100E□□222MK20S		1,500	12.5×25	0.030	0.060	1,950	ELXZ250E□□152MK25S		
	3,300	12.5×25	0.030	0.060	1,950	ELXZ100E□□332MK25S		1,800	12.5×30	0.025	0.050	2,310	ELXZ250E□□182MK30S		
	3,900	12.5×30	0.025	0.050	2,310	ELXZ100E□□392MK30S		3,300	16×20	0.029	0.058	2,210	ELXZ250E□□392ML20S		
	3,900	16×20	0.029	0.058	2,210	ELXZ100E□□392ML20S		3,300	16×30	0.019	0.038	3,010	ELXZ250E□□332ML30S		
	4,700	12.5×35	0.022	0.044	2,510	ELXZ100E□□472MK35S		3,300	18×20	0.028	0.056	2,490	ELXZ250E□□332MM20S		
	5,600	12.5×40	0.017	0.034	2,870	ELXZ100E□□562MK40S		3,900	18×25	0.020	0.040	2,740	ELXZ250E□□332MM25S		
	5,600	16×25	0.022	0.044	2,560	ELXZ100E□□562ML25S		3,900	16×35	0.017	0.034	3,150	ELXZ250E□□392ML35S		
	5,600	18×20	0.028	0.056	2,490	ELXZ100E□□562MM20S		3,900	18×30	0.018	0.036	3,330	ELXZ250E□□392MM30S		
6,800	16×30	0.019	0.038	3,010	ELXZ100E□□682ML30S	4,700	16×40	0.015	0.030	3,710	ELXZ250E□□472ML40S				
6,800	18×25	0.020	0.040	2,740	ELXZ100E□□682MM25S	4,700	18×35	0.016	0.032	3,680	ELXZ250E□□472MM35S				
8,200	16×35	0.017	0.034	3,150	ELXZ100E□□822ML35S	5,600	18×40	0.015	0.030	3,800	ELXZ250E□□562MM40S				
8,200	18×30	0.018	0.036	3,330	ELXZ100E□□822MM30S										
10,000	16×40	0.015	0.030	3,710	ELXZ100E□□103ML40S										
10,000	18×35	0.016	0.032	3,680	ELXZ100E□□103MM35S										
12,000	18×40	0.015	0.030	3,800	ELXZ100E□□123MM40S										
16	47	5×11.5	0.50	1.0	175	ELXZ160E□□470MEB5D	35	33	5×11.5	0.50	1.0	175	ELXZ350E□□330MEB5D		
	100	6.3×11.5	0.25	0.50	290	ELXZ160E□□101MFB5D		56	6.3×11.5	0.25	0.50	290	ELXZ350E□□560MFB5D		
	220	6.3×15	0.18	0.36	400	ELXZ160E□□221MF15D		100	6.3×15	0.18	0.36	400	ELXZ350E□□101MF15D		
	330	8×12	0.12	0.24	555	ELXZ160E□□331MH12D		150	8×12	0.12	0.24	555	ELXZ350E□□151MH12D		
	470	8×15	0.090	0.18	730	ELXZ160E□□471MH15D		220	8×15	0.090	0.18	730	ELXZ350E□□221MH15D		
	470	10×12.5	0.090	0.18	760	ELXZ160E□□471MJC5S		220	10×12.5	0.090	0.18	760	ELXZ350E□□221MJC5S		
	560	8×20	0.080	0.16	810	ELXZ160E□□561MH20D		270	8×20	0.080	0.16	810	ELXZ350E□□271MH20D		
	680	10×16	0.068	0.136	1,050	ELXZ160E□□681MJ16S		330	10×16	0.068	0.136	1,050	ELXZ350E□□331MJ16S		
	1,000	10×20	0.052	0.104	1,220	ELXZ160E□□102MJ20S		470	10×20	0.052	0.104	1,220	ELXZ350E□□471MJ20S		
	1,200	10×25	0.045	0.090	1,440	ELXZ160E□□122MJ25S		560	10×20	0.052	0.104	1,220	ELXZ350E□□561MJ20S		
	1,500	10×30	0.037	0.074	1,690	ELXZ160E□□152MJ30S		560	10×25	0.045	0.090	1,440	ELXZ350E□□561MJ25S		
	1,500	12.5×20	0.038	0.076	1,660	ELXZ160E□□152MK20S		680	10×30	0.037	0.074	1,690	ELXZ350E□□681MJ30S		
	2,200	12.5×25	0.030	0.060	1,950	ELXZ160E□□222MK25S		680	12.5×20	0.038	0.076	1,660	ELXZ350E□□681MK20S		
	2,700	12.5×30	0.025	0.050	2,310	ELXZ160E□□272MK30S		1,000	12.5×25	0.030	0.060	1,950	ELXZ350E□□102MK25S		
								1,200	12.5×30	0.025	0.050	2,310	ELXZ350E□□122MK30S		
								1,200	16×20	0.029	0.058	2,210	ELXZ350E□□122ML20S		
								1,500	12.5×35	0.022	0.044	2,510	ELXZ350E□□152MK35S		
								1,800	12.5×40	0.017	0.034	2,870	ELXZ350E□□182MK40S		
								1,800	16×25	0.022	0.044	2,560	ELXZ350E□□182ML25S		
								1,800	18×20	0.028	0.056	2,490	ELXZ350E□□182MM20S		
						2,200	16×25	0.022	0.044	2,560	ELXZ350E□□222ML25S				
						2,200	16×30	0.019	0.038	3,010	ELXZ350E□□222ML30S				
						2,200	18×20	0.028	0.056	2,490	ELXZ350E□□222MM20S				
						2,200	18×25	0.020	0.040	2,740	ELXZ350E□□222MM25S				
						2,700	16×35	0.017	0.034	3,150	ELXZ350E□□272ML35S				

□ □ : Enter the appropriate lead forming or taping code.

◆STANDARD RATINGS

VV (V _{dc})	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA _{rms} / 105°C, 100kHz)	Part No.	VV (V _{dc})	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA _{rms} / 105°C, 100kHz)	Part No.
			20°C	-10°C						20°C	-10°C		
35	2,700	18×30	0.018	0.036	3,330	ELXZ350E□□272MM30S	50	2,200	18×35	0.023	0.046	3,100	ELXZ500E□□222MM35S
	3,300	16×40	0.015	0.030	3,710	ELXZ350E□□332ML40S		2,700	18×40	0.020	0.040	3,400	ELXZ500E□□272MM40S
	3,300	18×35	0.016	0.032	3,680	ELXZ350E□□332MM35S		12	5×11.5	1.9	4.0	145	ELXZ630E□□120MEB5D
	3,900	18×40	0.015	0.030	3,800	ELXZ350E□□392MM40S		22	6.3×11.5	1.0	2.0	240	ELXZ630E□□220MFB5D
	4,700	18×40	0.015	0.030	3,800	ELXZ350E□□472MM40S		39	6.3×15	0.61	1.4	330	ELXZ630E□□390MF15D
50	22	5×11.5	0.90	1.8	155	ELXZ500E□□220MEB5D	68	8×12	0.34	0.75	405	ELXZ630E□□680MH12D	
	47	6.3×11.5	0.45	0.90	260	ELXZ500E□□470MFB5D	100	8×15	0.27	0.65	535	ELXZ630E□□101MH15D	
	68	6.3×15	0.31	0.62	360	ELXZ500E□□680MF15D	100	10×12.5	0.255	0.51	540	ELXZ630E□□101MJC5S	
	100	8×12	0.22	0.44	485	ELXZ500E□□101MH12D	120	10×16	0.19	0.38	600	ELXZ630E□□121MJ16S	
	120	8×15	0.16	0.32	635	ELXZ500E□□121MH15D	150	8×20	0.21	0.52	690	ELXZ630E□□151MH20D	
	120	10×12.5	0.16	0.32	620	ELXZ500E□□121MJC5S	180	10×20	0.145	0.29	890	ELXZ630E□□181MJ20S	
	180	8×20	0.12	0.24	730	ELXZ500E□□181MH20D	220	10×25	0.13	0.26	1,050	ELXZ630E□□221MJ25S	
	180	10×16	0.13	0.26	850	ELXZ500E□□181MJ16S	330	10×30	0.090	0.18	1,300	ELXZ630E□□331MJ30S	
	220	10×20	0.088	0.18	1,050	ELXZ500E□□221MJ20S	330	12.5×20	0.085	0.17	1,290	ELXZ630E□□331MK20S	
	330	10×25	0.073	0.15	1,250	ELXZ500E□□331MJ25S	390	12.5×25	0.070	0.14	1,720	ELXZ630E□□391MK25S	
	390	10×30	0.054	0.11	1,500	ELXZ500E□□391MJ30S	470	12.5×30	0.055	0.11	2,090	ELXZ630E□□471MK30S	
	390	12.5×20	0.059	0.12	1,480	ELXZ500E□□391MK20S	470	16×20	0.059	0.12	1,770	ELXZ630E□□471ML20S	
	470	12.5×20	0.059	0.12	1,480	ELXZ500E□□471MK20S	680	12.5×35	0.047	0.094	2,270	ELXZ630E□□681MK35S	
	560	12.5×25	0.044	0.088	1,840	ELXZ500E□□561MK25S	680	16×25	0.050	0.10	2,160	ELXZ630E□□681ML25S	
	680	12.5×30	0.039	0.078	2,220	ELXZ500E□□681MK30S	680	18×20	0.055	0.11	2,290	ELXZ630E□□681MM20S	
	680	16×20	0.048	0.096	1,840	ELXZ500E□□681ML20S	820	12.5×40	0.042	0.084	2,560	ELXZ630E□□821MK40S	
	820	12.5×35	0.033	0.066	2,290	ELXZ500E□□821MK35S	820	16×30	0.043	0.086	2,670	ELXZ630E□□821ML30S	
	820	18×20	0.042	0.084	1,980	ELXZ500E□□821MM20S	820	18×25	0.043	0.086	2,590	ELXZ630E□□821MM25S	
	1,000	12.5×40	0.029	0.058	2,500	ELXZ500E□□102MK40S	1,000	16×30	0.043	0.086	2,670	ELXZ630E□□102ML30S	
	1,000	16×25	0.034	0.068	2,240	ELXZ500E□□102ML25S	1,000	16×35	0.036	0.072	2,770	ELXZ630E□□102ML35S	
1,200	16×30	0.028	0.056	2,700	ELXZ500E□□122ML30S	1,200	16×40	0.030	0.060	2,850	ELXZ630E□□122ML40S		
1,200	18×25	0.029	0.058	2,610	ELXZ500E□□122MM25S	1,200	18×30	0.032	0.064	2,950	ELXZ630E□□122MM30S		
1,500	16×35	0.025	0.050	2,800	ELXZ500E□□152ML35S	1,500	18×35	0.030	0.060	3,100	ELXZ630E□□152MM35S		
1,800	16×40	0.021	0.042	3,200	ELXZ500E□□182ML40S	1,800	18×40	0.025	0.050	3,210	ELXZ630E□□182MM40S		
1,800	18×30	0.025	0.050	3,000	ELXZ500E□□182MM30S	2,200	18×40	0.025	0.050	3,210	ELXZ630E□□222MM40S		

□□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance(μF)	Frequency(Hz)	120	1k	10k	100k
12 to 180		0.40	0.75	0.90	1.00
220 to 560		0.50	0.85	0.94	1.00
680 to 1,800		0.60	0.87	0.95	1.00
2,200 to 3,900		0.75	0.90	0.95	1.00
4,700 to 18,000		0.85	0.95	0.98	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.