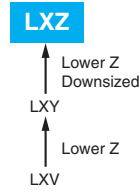


# LXZ Series

- 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.

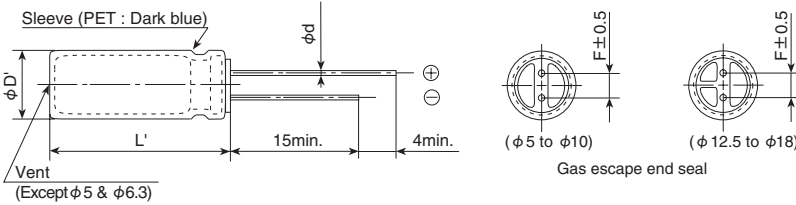


## SPECIFICATIONS

Items	Characteristics																								
<b>Category</b>	-55 to +105°C																								
<b>Temperature Range</b>																									
<b>Rated Voltage Range</b>	6.3 to 63V <sub>dc</sub>																								
<b>Capacitance Tolerance</b>	±20% (M) (at 20°C, 120Hz)																								
<b>Leakage Current</b>	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)																								
<b>Dissipation Factor (tan δ)</b>	<table border="1"> <tr> <td>Rated voltage (V<sub>dc</sub>)</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 <sub>dc</sub> )	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 <sub>dc</sub> )	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																		
<b>Endurance</b>	<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 &amp; 6.3 : 2,000hours</td> <td>φ8 : 3,000hours</td> <td>φ10 : 5,000hours</td> <td>φ12.5 : 7,000hours</td> <td>φ16 &amp; 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																								
<b>Shelf Life</b>	<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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Leakage current	≤ The initial specified value																								

## 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

VV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz)	Part No.	VV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA <sub>rms</sub> /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.