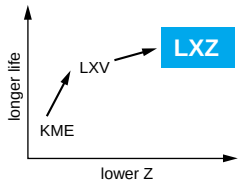
LXZ Series

- Newly innovative electrolyte and internal architecture are employed
- Very low impedance at high frequency range
- Endurance with ripple current: 105℃ 2000 to 8000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)
- Pb-free design

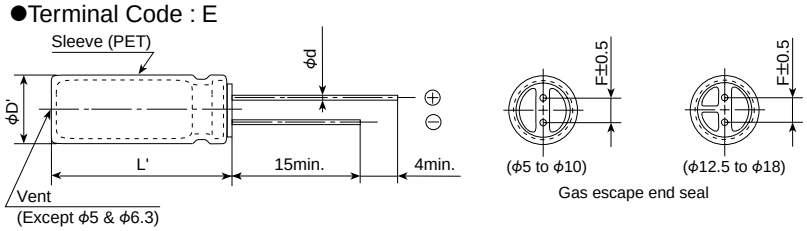


◆SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	−55 to +105℃							
Rated Voltage Range	6.3 to 63Vdc							
Capacitance Tolerance	±20% (M) (at 20℃, 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℃ after 2 minutes)							
Dissipation Factor (tanδ)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V	63V
	tanδ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08
	When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (at 20℃, 120Hz)							
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105℃.							
	Time	φ5 & 6.3 : 2000hours φ8 : 3000hours φ10 : 5000hours φ12.5 : 7000hours φ16 & 18 : 8000hours						
	Capacitance change	≦±20% of the initial value						
	D.F. (tanδ)	≦200% of the initial specified value						
	Leakage current	≦The initial specified value						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours at 105℃ without voltage applied.							
	Capacitance change	≦±20% of the initial value						
	D.F. (tanδ)	≦200% of the initial specified value						
	Leakage current	≦The initial specified value						

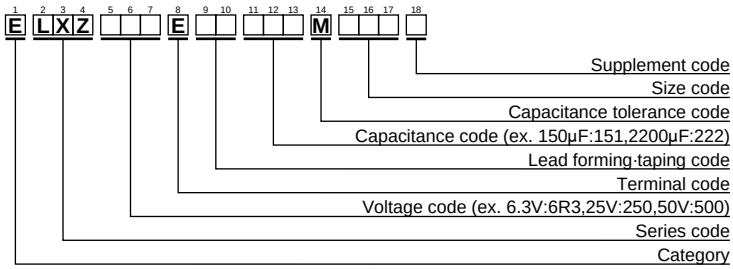
◆DIMENSIONS [mm]

- 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 "A guide to global code (radial lead type)"

LXZ Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mArms/105℃, 100kHz)	Part No.
			20℃	-10℃		
6.3	150	5×11.5	0.50	1.0	175	ELXZ6R3E□□151MEB5D
	330	6.3×11.5	0.25	0.50	290	ELXZ6R3E□□331MFB5D
	470	6.3×15	0.18	0.36	400	ELXZ6R3E□□471MF15D
	680	8×12	0.12	0.24	555	ELXZ6R3E□□681MH12D
	820	10×12.5	0.090	0.18	760	ELXZ6R3E□□821MJC5S
	1000	8×15	0.090	0.18	730	ELXZ6R3E□□102MH15D
	1200	8×20	0.080	0.16	810	ELXZ6R3E□□122MH20D
	1200	10×16	0.068	0.136	1050	ELXZ6R3E□□122MJ16S
	1500	10×20	0.052	0.104	1220	ELXZ6R3E□□152MJ20S
	2200	10×25	0.045	0.090	1440	ELXZ6R3E□□222MJ25S
	2700	10×30	0.037	0.074	1690	ELXZ6R3E□□272MJ30S
	3300	12.5×20	0.038	0.076	1660	ELXZ6R3E□□332MK20S
	3900	12.5×25	0.030	0.060	1950	ELXZ6R3E□□392MK25S
	4700	12.5×30	0.025	0.050	2310	ELXZ6R3E□□472MK30S
	5600	12.5×35	0.022	0.044	2510	ELXZ6R3E□□562MK35S
	5600	16×20	0.029	0.058	2210	ELXZ6R3E□□562ML20S
	6800	12.5×40	0.017	0.034	2870	ELXZ6R3E□□682MK40S
	6800	16×25	0.022	0.044	2560	ELXZ6R3E□□682ML25S
	6800	18×20	0.028	0.056	2490	ELXZ6R3E□□682MM20S
	8200	16×30	0.019	0.038	3010	ELXZ6R3E□□822ML30S
	10000	16×35	0.017	0.034	3150	ELXZ6R3E□□103ML35S
	10000	18×25	0.020	0.040	2740	ELXZ6R3E□□103MM25S
	12000	16×40	0.015	0.030	3710	ELXZ6R3E□□123ML40S
	12000	18×30	0.018	0.036	3330	ELXZ6R3E□□123MM30S
	15000	18×35	0.016	0.032	3680	ELXZ6R3E□□153MM35S
	18000	18×40	0.015	0.030	3800	ELXZ6R3E□□183MM40S
10	100	5×11.5	0.50	1.0	175	ELXZ100E□□101MEB5D
	220	6.3×11.5	0.25	0.50	290	ELXZ100E□□221MFB5D
	330	6.3×15	0.18	0.36	400	ELXZ100E□□331MF15D
	470	8×12	0.12	0.24	555	ELXZ100E□□471MH12D
	680	8×15	0.090	0.18	730	ELXZ100E□□681MH15D
	680	10×12.5	0.090	0.18	760	ELXZ100E□□681MJC5S
	1000	8×20	0.080	0.16	810	ELXZ100E□□102MH20D
	1000	10×16	0.068	0.136	1050	ELXZ100E□□102MJ16S
	1200	10×20	0.052	0.104	1220	ELXZ100E□□122MJ20S
	1500	10×25	0.045	0.090	1440	ELXZ100E□□152MJ25S
	1800	10×30	0.037	0.074	1690	ELXZ100E□□182MJ30S
	2200	12.5×20	0.038	0.076	1660	ELXZ100E□□222MK20S
	3300	12.5×25	0.030	0.060	1950	ELXZ100E□□332MK25S
	3900	12.5×30	0.025	0.050	2310	ELXZ100E□□392MK30S
	3900	16×20	0.029	0.058	2210	ELXZ100E□□392ML20S
	4700	12.5×35	0.022	0.044	2510	ELXZ100E□□472MK35S
	5600	12.5×40	0.017	0.034	2870	ELXZ100E□□562MK40S
	5600	16×25	0.022	0.044	2560	ELXZ100E□□562ML25S
	5600	18×20	0.028	0.056	2490	ELXZ100E□□562MM20S
	6800	16×30	0.019	0.038	3010	ELXZ100E□□682ML30S
	6800	18×25	0.020	0.040	2740	ELXZ100E□□682MM25S
	8200	16×35	0.017	0.034	3150	ELXZ100E□□822ML35S
	8200	18×30	0.018	0.036	3330	ELXZ100E□□822MM30S
	10000	16×40	0.015	0.030	3710	ELXZ100E□□103ML40S
	10000	18×35	0.016	0.032	3680	ELXZ100E□□103MM35S
	12000	18×40	0.015	0.030	3800	ELXZ100E□□123MM40S
16	47	5×11.5	0.50	1.0	175	ELXZ160E□□470MEB5D
	100	6.3×11.5	0.25	0.50	290	ELXZ160E□□101MFB5D
	220	6.3×15	0.18	0.36	400	ELXZ160E□□221MF15D
	330	8×12	0.12	0.24	555	ELXZ160E□□331MH12D
	470	8×15	0.090	0.18	730	ELXZ160E□□471MH15D
	470	10×12.5	0.090	0.18	760	ELXZ160E□□471MJC5S
	560	8×20	0.080	0.16	810	ELXZ160E□□561MH20D
	680	10×16	0.068	0.136	1050	ELXZ160E□□681MJ16S
	1000	10×20	0.052	0.104	1220	ELXZ160E□□102MJ20S
	1200	10×25	0.045	0.090	1440	ELXZ160E□□122MJ25S
	1500	10×30	0.037	0.074	1690	ELXZ160E□□152MJ30S
	1500	12.5×20	0.038	0.076	1660	ELXZ160E□□152MK20S
	2200	12.5×25	0.030	0.060	1950	ELXZ160E□□222MK25S
	2700	12.5×30	0.025	0.050	2310	ELXZ160E□□272MK30S
	2700	16×20	0.029	0.058	2210	ELXZ160E□□272ML20S
16	3300	12.5×35	0.022	0.044	2510	ELXZ160E□□332MK35S
	3900	12.5×40	0.017	0.034	2870	ELXZ160E□□392MK40S
	3900	16×25	0.022	0.044	2560	ELXZ160E□□392ML25S
	3900	18×20	0.028	0.056	2490	ELXZ160E□□392MM20S
	4700	16×30	0.019	0.038	3010	ELXZ160E□□472ML30S
	4700	18×25	0.020	0.040	2740	ELXZ160E□□472MM25S
	5600	16×35	0.017	0.034	3150	ELXZ160E□□562ML35S
	5600	18×30	0.018	0.036	3330	ELXZ160E□□562MM30S
	6800	16×40	0.015	0.030	3710	ELXZ160E□□682ML40S
	8200	18×35	0.016	0.032	3680	ELXZ160E□□822MM35S
	10000	18×40	0.015	0.030	3800	ELXZ160E□□103MM40S
25	47	5×11.5	0.50	1.0	175	ELXZ250E□□470MEB5D
	100	6.3×11.5	0.25	0.50	290	ELXZ250E□□101MFB5D
	150	6.3×15	0.18	0.36	400	ELXZ250E□□151MF15D
	220	8×12	0.12	0.24	555	ELXZ250E□□221MH12D
	330	8×15	0.090	0.18	730	ELXZ250E□□331MH15D
	330	10×12.5	0.090	0.18	760	ELXZ250E□□331MJC5S
	390	8×20	0.080	0.16	810	ELXZ250E□□391MH20D
	470	10×16	0.068	0.136	1050	ELXZ250E□□471MJ16S
	680	10×20	0.052	0.104	1220	ELXZ250E□□681MJ20S
	820	10×25	0.045	0.090	1440	ELXZ250E□□821MJ25S
	1000	10×30	0.037	0.074	1690	ELXZ250E□□102MJ30S
	1000	12.5×20	0.038	0.076	1660	ELXZ250E□□102MK20S
	1500	12.5×25	0.030	0.060	1950	ELXZ250E□□152MK25S
	1800	12.5×30	0.025	0.050	2310	ELXZ250E□□182MK30S
	1800	16×20	0.029	0.058	2210	ELXZ250E□□182ML20S
	2200	12.5×35	0.022	0.044	2510	ELXZ250E□□222MK35S
	2200	18×20	0.028	0.056	2490	ELXZ250E□□222MM20S
	2700	12.5×40	0.017	0.034	2870	ELXZ250E□□272MK40S
	2700	16×25	0.022	0.044	2560	ELXZ250E□□272ML25S
	3300	16×30	0.019	0.038	3010	ELXZ250E□□332ML30S
	3300	18×25	0.020	0.040	2740	ELXZ250E□□332MM25S
	3900	16×35	0.017	0.034	3150	ELXZ250E□□392ML35S
	3900	18×30	0.018	0.036	3330	ELXZ250E□□392MM30S
	4700	16×40	0.015	0.030	3710	ELXZ250E□□472ML40S
	4700	18×35	0.016	0.032	3680	ELXZ250E□□472MM35S
	5600	18×40	0.015	0.030	3800	ELXZ250E□□562MM40S
35	33	5×11.5	0.50	1.0	175	ELXZ350E□□330MEB5D
	56	6.3×11.5	0.25	0.50	290	ELXZ350E□□560MFB5D
	100	6.3×15	0.18	0.36	400	ELXZ350E□□101MF15D
	150	8×12	0.12	0.24	555	ELXZ350E□□151MH12D
	220	8×15	0.090	0.18	730	ELXZ350E□□221MH15D
	220	10×12.5	0.090	0.18	760	ELXZ350E□□221MJC5S
	270	8×20	0.080	0.16	810	ELXZ350E□□271MH20D
	330	10×16	0.068	0.136	1050	ELXZ350E□□331MJ16S
	470	10×20	0.052	0.104	1220	ELXZ350E□□471MJ20S
	560	10×25	0.045	0.090	1440	ELXZ350E□□561MJ25S
	680	10×30	0.037	0.074	1690	ELXZ350E□□681MJ30S
	680	12.5×20	0.038	0.076	1660	ELXZ350E□□681MK20S
	1000	12.5×25	0.030	0.060	1950	ELXZ350E□□102MK25S
	1200	12.5×30	0.025	0.050	2310	ELXZ350E□□122MK30S
	1200	16×20	0.029	0.058	2210	ELXZ350E□□122ML20S
	1500	12.5×35	0.022	0.044	2510	ELXZ350E□□152MK35S
	1800	12.5×40	0.017	0.034	2870	ELXZ350E□□182MK40S
	1800	16×25	0.022	0.044	2560	ELXZ350E□□182ML25S
	1800	18×20	0.028	0.056	2490	ELXZ350E□□182MM20S
	2200	16×30	0.019	0.038	3010	ELXZ350E□□222ML30S
	2200	18×25	0.020	0.040	2740	ELXZ350E□□222MM25S
	2700	16×35	0.017	0.034	3150	ELXZ350E□□272ML35S
	2700	18×30	0.018	0.036	3330	ELXZ350E□□272MM30S
	3300	16×40	0.015	0.030	3710	ELXZ350E□□332ML40S
	3300	18×35	0.016	0.032	3680	ELXZ350E□□332MM35S
	3900	18×40	0.015	0.030	3800	ELXZ350E□□392MM40S
50	22	5×11.5	0.90	1.8	155	ELXZ500E□□220MEB5D
	47	6.3×11.5	0.45	0.90	260	ELXZ500E□□470MFB5D
	68	6.3×15	0.31	0.62	360	ELXZ500E□□680MF15D
	100	8×12	0.22	0.44	485	ELXZ500E□□101MH12D

□□ : Lead forming / Taping code

LXZ Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mArms/105℃, 100kHz)	Part No.
			20℃	-10℃		
50	120	8×15	0.16	0.32	635	ELXZ500E□□121MH15D
	120	10×12.5	0.16	0.32	620	ELXZ500E□□121MJC5S
	180	8×20	0.12	0.24	730	ELXZ500E□□181MH20D
	180	10×16	0.13	0.26	850	ELXZ500E□□181MJ16S
	220	10×20	0.088	0.18	1050	ELXZ500E□□221MJ20S
	330	10×25	0.073	0.15	1250	ELXZ500E□□331MJ25S
	390	10×30	0.054	0.11	1500	ELXZ500E□□391MJ30S
	390	12.5×20	0.059	0.12	1480	ELXZ500E□□391MK20S
	560	12.5×25	0.044	0.088	1840	ELXZ500E□□561MK25S
	680	12.5×30	0.039	0.078	2220	ELXZ500E□□681MK30S
	680	16×20	0.048	0.096	1840	ELXZ500E□□681ML20S
	820	12.5×35	0.033	0.066	2290	ELXZ500E□□821MK35S
	820	18×20	0.042	0.084	1980	ELXZ500E□□821MM20S
	1000	12.5×40	0.029	0.058	2500	ELXZ500E□□102MK40S
	1000	16×25	0.034	0.068	2240	ELXZ500E□□102ML25S
	1200	16×30	0.028	0.056	2700	ELXZ500E□□122ML30S
	1200	18×25	0.029	0.058	2610	ELXZ500E□□122MM25S
	1500	16×35	0.025	0.050	2800	ELXZ500E□□152ML35S
	1800	16×40	0.021	0.042	3200	ELXZ500E□□182ML40S
	1800	18×30	0.025	0.050	3000	ELXZ500E□□182MM30S
	2200	18×35	0.023	0.046	3100	ELXZ500E□□222MM35S
	2700	18×40	0.020	0.040	3400	ELXZ500E□□272MM40S
63	12	5×11.5	1.9	4.0	145	ELXZ630E□□120MEB5D
	22	6.3×11.5	1.0	2.0	240	ELXZ630E□□220MFB5D

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mArms/105℃, 100kHz)	Part No.
			20℃	-10℃		
63	39	6.3×15	0.61	1.4	330	ELXZ630E□□390MF15D
	68	8×12	0.34	0.75	405	ELXZ630E□□680MH12D
	100	8×15	0.27	0.65	535	ELXZ630E□□101MH15D
	100	10×12.5	0.255	0.51	540	ELXZ630E□□101MJC5S
	120	10×16	0.19	0.38	600	ELXZ630E□□121MJ16S
	150	8×20	0.21	0.52	690	ELXZ630E□□151MH20D
	180	10×20	0.145	0.29	890	ELXZ630E□□181MJ20S
	220	10×25	0.13	0.26	1050	ELXZ630E□□221MJ25S
	330	10×30	0.090	0.18	1300	ELXZ630E□□331MJ30S
	330	12.5×20	0.085	0.17	1290	ELXZ630E□□331MK20S
	390	12.5×25	0.070	0.14	1720	ELXZ630E□□391MK25S
	470	12.5×30	0.055	0.11	2090	ELXZ630E□□471MK30S
	470	16×20	0.059	0.12	1770	ELXZ630E□□471ML20S
	680	12.5×35	0.047	0.094	2270	ELXZ630E□□681MK35S
	680	16×25	0.050	0.10	2160	ELXZ630E□□681ML25S
	680	18×20	0.055	0.11	2290	ELXZ630E□□681MM20S
	820	12.5×40	0.042	0.084	2560	ELXZ630E□□821MK40S
	820	16×30	0.043	0.086	2670	ELXZ630E□□821ML30S
	820	18×25	0.043	0.086	2590	ELXZ630E□□821MM25S
	1000	16×35	0.036	0.072	2770	ELXZ630E□□102ML35S
	1200	16×40	0.030	0.060	2850	ELXZ630E□□122ML40S
	1200	18×30	0.032	0.064	2950	ELXZ630E□□122MM30S
	1500	18×35	0.030	0.060	3100	ELXZ630E□□152MM35S
	1800	18×40	0.025	0.050	3210	ELXZ630E□□182MM40S

□□ : Lead forming / 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