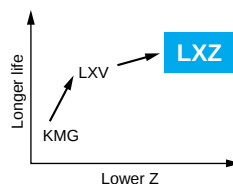


LXZ Series

- Newly innovative electrolyte and internal architecture are employed
- Very low impedance at high frequency range
- Endurance with ripple current: 2,000 to 8,000 hours at 105°C
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant

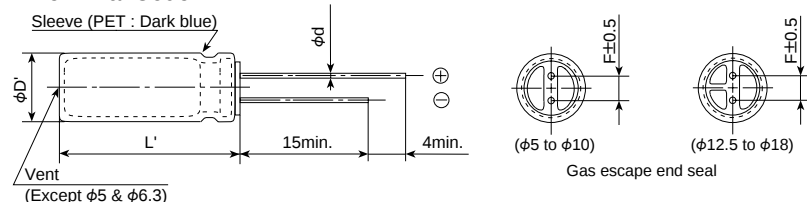


SPECIFICATIONS

Items	Characteristics										
Category Temperature Range	-55 to +105°C										
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 (tanδ)	Rated voltage (V _{dc})	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 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)										
Endurance	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 for the specified period of time at 105°C.										
	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. (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°C after exposing them for 1,000 hours at 105°C 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									

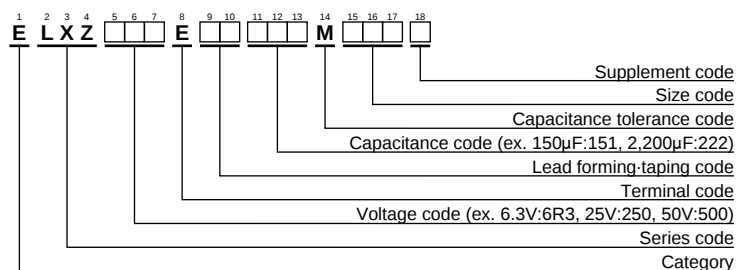
DIMENSIONS [mm]

- 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)"



◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mA rms/ 105°C, 100kHz)	Part No.
			20°C	-10°C		
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
	1,000	8 × 15	0.090	0.18	730	ELXZ6R3E□□102MH15D
	1,200	8 × 20	0.080	0.16	810	ELXZ6R3E□□122MH20D
	1,200	10 × 16	0.068	0.136	1,050	ELXZ6R3E□□122MJ16S
	1,500	10 × 20	0.052	0.104	1,220	ELXZ6R3E□□152MJ20S
	2,200	10 × 25	0.045	0.090	1,440	ELXZ6R3E□□222MJ25S
	2,700	10 × 30	0.037	0.074	1,690	ELXZ6R3E□□272MJ30S
	3,300	12.5 × 20	0.038	0.076	1,660	ELXZ6R3E□□332MK20S
	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	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
	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
	1,000	8 × 20	0.080	0.16	810	ELXZ100E□□102MH20D
	1,000	10 × 16	0.068	0.136	1,050	ELXZ100E□□102MJ16S
	1,200	10 × 20	0.052	0.104	1,220	ELXZ100E□□122MJ20S
	1,500	10 × 25	0.045	0.090	1,440	ELXZ100E□□152MJ25S
	1,800	10 × 30	0.037	0.074	1,690	ELXZ100E□□182MJ30S
	2,200	12.5 × 20	0.038	0.076	1,660	ELXZ100E□□222MK20S
	3,300	12.5 × 25	0.030	0.060	1,950	ELXZ100E□□332MK25S
	3,900	12.5 × 30	0.025	0.050	2,310	ELXZ100E□□392MK30S
	3,900	16 × 20	0.029	0.058	2,210	ELXZ100E□□392ML20S
	4,700	12.5 × 35	0.022	0.044	2,510	ELXZ100E□□472MK35S
16	5,600	12.5 × 40	0.017	0.034	2,870	ELXZ100E□□562MK40S
	5,600	16 × 25	0.022	0.044	2,560	ELXZ100E□□562ML25S
	5,600	18 × 20	0.028	0.056	2,490	ELXZ100E□□562MM20S
	6,800	16 × 30	0.019	0.038	3,010	ELXZ100E□□682ML30S
	6,800	18 × 25	0.020	0.040	2,740	ELXZ100E□□682MM25S
	8,200	16 × 35	0.017	0.034	3,150	ELXZ100E□□822ML35S
	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
	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	1,050	ELXZ160E□□681MJ16S
	1,000	10 × 20	0.052	0.104	1,220	ELXZ160E□□102MJ20S
	1,200	10 × 25	0.045	0.090	1,440	ELXZ160E□□122MJ25S
	1,500	10 × 30	0.037	0.074	1,690	ELXZ160E□□152MJ30S
	1,500	12.5 × 20	0.038	0.076	1,660	ELXZ160E□□152MK20S
25	2,200	12.5 × 25	0.030	0.060	1,950	ELXZ160E□□222MK25S
	2,700	12.5 × 30	0.025	0.050	2,310	ELXZ160E□□272MK30S
	2,700	16 × 20	0.029	0.058	2,210	ELXZ160E□□272ML20S
	3,300	12.5 × 35	0.022	0.044	2,510	ELXZ160E□□332MK35S
	3,300	16 × 25	0.022	0.044	2,560	ELXZ160E□□332ML25S
	3,300	18 × 20	0.028	0.056	2,490	ELXZ160E□□332MM20S
	3,900	16 × 30	0.019	0.038	3,010	ELXZ160E□□392ML30S
	3,900	18 × 25	0.020	0.040	2,740	ELXZ160E□□392MM25S
	3,900	16 × 35	0.017	0.034	3,150	ELXZ160E□□392ML35S
	3,900	18 × 30	0.018	0.036	3,330	ELXZ160E□□392MM30S
	4,700	16 × 40	0.015	0.030	3,710	ELXZ160E□□472ML40S
	4,700	18 × 35	0.016	0.032	3,680	ELXZ160E□□472MM35S
	5,600	18 × 40	0.015	0.030	3,800	ELXZ160E□□562MM40S
	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	1,050	ELXZ350E□□331MJ16S
	470	10 × 20	0.052	0.104	1,220	ELXZ350E□□471MJ20S
	560	10 × 25	0.045	0.090	1,440	ELXZ350E□□561MJ25S
35	680	10 × 30	0.037	0.074	1,690	ELXZ350E□□681MJ30S
	680	12.5 × 20	0.038	0.076	1,660	ELXZ350E□□681MK20S
	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 × 30	0.019	0.038	3,010	ELXZ350E□□222ML30S
	2,200	18 × 25	0.020	0.040	2,740	ELXZ350E□□222MM25S
	2,700	16 × 35	0.017	0.034	3,150	ELXZ350E□□272ML35S
	2,700	18 × 30	0.018	0.036	3,330	ELXZ350E□□272MM30S
	3,300	16 × 40	0.015	0.030	3,710	ELXZ350E□□332ML40S
	3,300	18 × 35	0.016	0.032	3,680	ELXZ350E□□332MM35S
	3,900	18 × 40	0.015	0.030	3,800	ELXZ350E□□392MM40S
	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

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)	Part No.
			20°C	-10°C		
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	1,050	ELXZ500E□□221MJ20S
	330	10×25	0.073	0.15	1,250	ELXZ500E□□331MJ25S
	390	10×30	0.054	0.11	1,500	ELXZ500E□□391MJ30S
	390	12.5×20	0.059	0.12	1,480	ELXZ500E□□391MK20S
	560	12.5×25	0.044	0.088	1,840	ELXZ500E□□561MK25S
	680	12.5×30	0.039	0.078	2,220	ELXZ500E□□681MK30S
	680	16×20	0.048	0.096	1,840	ELXZ500E□□681ML20S
	820	12.5×35	0.033	0.066	2,290	ELXZ500E□□821MK35S
	820	18×20	0.042	0.084	1,980	ELXZ500E□□821MM20S
	1,000	12.5×40	0.029	0.058	2,500	ELXZ500E□□102MK40S
	1,000	16×25	0.034	0.068	2,240	ELXZ500E□□102ML25S
	1,200	16×30	0.028	0.056	2,700	ELXZ500E□□122ML30S
	1,200	18×25	0.029	0.058	2,610	ELXZ500E□□122MM25S
	1,500	16×35	0.025	0.050	2,800	ELXZ500E□□152ML35S
	1,800	16×40	0.021	0.042	3,200	ELXZ500E□□182ML40S
	1,800	18×30	0.025	0.050	3,000	ELXZ500E□□182MM30S
	2,200	18×35	0.023	0.046	3,100	ELXZ500E□□222MM35S
	2,700	18×40	0.020	0.040	3,400	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 (mA _{rms} /105°C, 100kHz)	Part No.
			20°C	-10°C		
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	1,050	ELXZ630E□□221MJ25S
	330	10×30	0.090	0.18	1,300	ELXZ630E□□331MJ30S
	330	12.5×20	0.085	0.17	1,290	ELXZ630E□□331MK20S
	390	12.5×25	0.070	0.14	1,720	ELXZ630E□□391MK25S
	470	12.5×30	0.055	0.11	2,090	ELXZ630E□□471MK30S
	470	16×20	0.059	0.12	1,770	ELXZ630E□□471ML20S
	680	12.5×35	0.047	0.094	2,270	ELXZ630E□□681MK35S
	680	16×25	0.050	0.10	2,160	ELXZ630E□□681ML25S
	680	18×20	0.055	0.11	2,290	ELXZ630E□□681MM20S
	820	12.5×40	0.042	0.084	2,560	ELXZ630E□□821MK40S
	820	16×30	0.043	0.086	2,670	ELXZ630E□□821ML30S
	820	18×25	0.043	0.086	2,590	ELXZ630E□□821MM25S
	1,000	16×35	0.036	0.072	2,770	ELXZ630E□□102ML35S
	1,200	16×40	0.030	0.060	2,850	ELXZ630E□□122ML40S
	1,200	18×30	0.032	0.064	2,950	ELXZ630E□□122MM30S
	1,500	18×35	0.030	0.060	3,100	ELXZ630E□□152MM35S
	1,800	18×40	0.025	0.050	3,210	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

The endurance of capacitors is shortened 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.