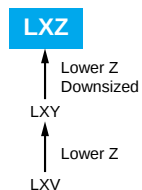


LXZ Series

- 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

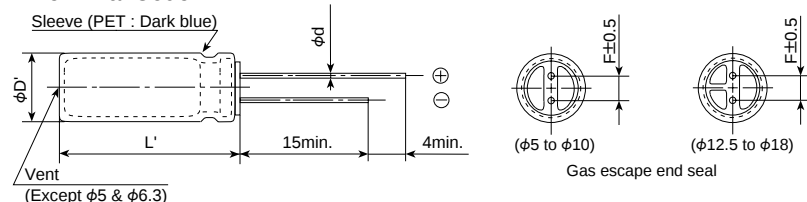


SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-55 to +105°C	
Rated Voltage Range	6.3 to 63V _{dc}	
Capacitance Tolerance	±20% (M)	
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

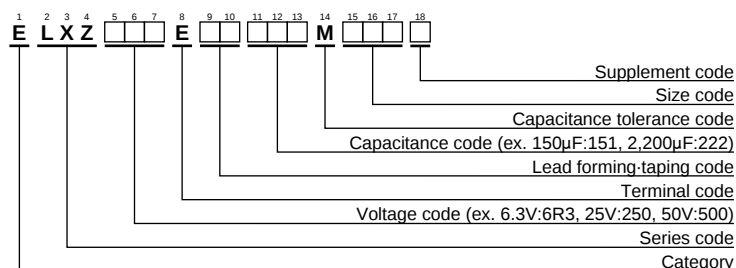
DIMENSIONS [mm]

- 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	
10,000	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
	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
	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	
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	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
	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
	3,900	12.5 × 40	0.017	0.034	2,870	ELXZ160E□□392MK40S
	4,700	12.5 × 45	0.015	0.030	3,710	ELXZ160E□□472MK45S
	5,600	12.5 × 50	0.013	0.026	4,550	ELXZ160E□□562MK50S
	6,800	12.5 × 55	0.011	0.022	5,390	ELXZ160E□□682MK55S
8,200	12.5 × 60	0.009	0.018	6,730	ELXZ160E□□822MK60S	
10,000	12.5 × 65	0.008	0.016	8,170	ELXZ160E□□102MK65S	
12,000	12.5 × 70	0.007	0.014	9,610	ELXZ160E□□122MK70S	
14,000	12.5 × 75	0.006	0.012	11,050	ELXZ160E□□142MK75S	
16,000	12.5 × 80	0.005	0.010	12,490	ELXZ160E□□162MK80S	
18,000	12.5 × 85	0.004	0.008	13,930	ELXZ160E□□182MK85S	
20,000	12.5 × 90	0.003	0.006	15,370	ELXZ160E□□202MK90S	
22,000	12.5 × 95	0.002	0.004	16,810	ELXZ160E□□222MK95S	
24,000	12.5 × 100	0.001	0.002	18,250	ELXZ160E□□242MK100S	
26,000	12.5 × 105	0.001	0.001	19,690	ELXZ160E□□262MK105S	
28,000	12.5 × 110	0.001	0.001	21,130	ELXZ160E□□282MK110S	
30,000	12.5 × 115	0.001	0.001	22,570	ELXZ160E□□302MK115S	
25	3,300	12.5 × 120	0.001	0.001	24,010	ELXZ160E□□332MK120S
	3,900	12.5 × 125	0.001	0.001	25,450	ELXZ160E□□392MK125S
	4,700	12.5 × 130	0.001	0.001	26,890	ELXZ160E□□472MK130S
	5,600	12.5 × 135	0.001	0.001	28,330	ELXZ160E□□562MK135S
	6,800	12.5 × 140	0.001	0.001	29,770	ELXZ160E□□682MK140S
	8,200	12.5 × 145	0.001	0.001	31,210	ELXZ160E□□822MK145S
	10,000	12.5 × 150	0.001	0.001	32,650	ELXZ160E□□102MK150S
	12,000	12.5 × 155	0.001	0.001	34,090	ELXZ160E□□122MK155S
	14,000	12.5 × 160	0.001	0.001	35,530	ELXZ160E□□142MK160S
	16,000	12.5 × 165	0.001	0.001	36,970	ELXZ160E□□162MK165S
	18,000	12.5 × 170	0.001	0.001	38,410	ELXZ160E□□182MK170S
	20,000	12.5 × 175	0.001	0.001	39,850	ELXZ160E□□202MK175S
	22,000	12.5 × 180	0.001	0.001	41,290	ELXZ160E□□222MK180S
	24,000	12.5 × 185	0.001	0.001	42,730	ELXZ160E□□242MK185S
	26,000	12.5 × 190	0.001	0.001	44,170	ELXZ160E□□262MK190S
	28,000	12.5 × 195	0.001	0.001	45,610	ELXZ160E□□282MK195S
	30,000	12.5 × 200	0.001	0.001	47,050	ELXZ160E□□302MK200S
	32,000	12.5 × 205	0.001	0.001	48,490	ELXZ160E□□322MK205S
	34,000	12.5 × 210	0.001	0.001	49,930	ELXZ160E□□342MK210S
	36,000	12.5 × 215	0.001	0.001	51,370	ELXZ160E□□362MK215S
38,000	12.5 × 220	0.001	0.001	52,810	ELXZ160E□□382MK220S	
40,000	12.5 × 225	0.001	0.001	54,250	ELXZ160E□□402MK225S	
42,000	12.5 × 230	0.001	0.001	55,690	ELXZ160E□□422MK230S	
44,000	12.5 × 235	0.001	0.001	57,130	ELXZ160E□□442MK235S	
46,000	12.5 × 240	0.001	0.001	58,570	ELXZ160E□□462MK240S	
48,000	12.5 × 245	0.001	0.001	60,010	ELXZ160E□□482MK245S	
50,000	12.5 × 250	0.001	0.001	61,450	ELXZ160E□□502MK250S	
52,000	12.5 × 255	0.001	0.001	62,890	ELXZ160E□□522MK255S	
54,000	12.5 × 260	0.001	0.001	64,330	ELXZ160E□□542MK260S	
56,000	12.5 × 265	0.001	0.001	65,770	ELXZ160E□□562MK265S	
58,000	12.5 × 270	0.001	0.001	67,210	ELXZ160E□□582MK270S	
60,000	12.5 × 275	0.001	0.001	68,650	ELXZ160E□□602MK275S	
62,000	12.5 × 280	0.001	0.001	70,090	ELXZ160E□□622MK280S	
64,000	12.5 × 285	0.001	0.001	71,530	ELXZ160E□□642MK285S	
66,000	12.5 × 290	0.001	0.001	72,970	ELXZ160E□□662MK290S	
68,000	12.5 × 295	0.001	0.001	74,410	ELXZ160E□□682MK295S	
70,000	12.5 × 300	0.001	0.001	75,850	ELXZ160E□□702MK300S	
72,000	12.5 × 305	0.001	0.001	77,290	ELXZ160E□□722MK305S	
74,000	12.5 × 310	0.001	0.001	78,730	ELXZ160E□□742MK310S	
76,000	12.5 × 315	0.001	0.001	80,170	ELXZ160E□□762MK315S	
78,000	12.5 × 320	0.001	0.001	81,610	ELXZ160E□□782MK320S	
80,000	12.5 × 325	0.001	0.001	83,050	ELXZ160E□□802MK325S	
82,000	12.5 × 330	0.001	0.001	84,490	ELXZ160E□□822MK330S	
84,000	12.5 × 335	0.001	0.001	85,930	ELXZ160E□□842MK335S	
86,000	12.5 × 340	0.001	0.001	87,370	ELXZ160E□□862MK340S	
88,000	12.5 × 345	0.001	0.001	88,810	ELXZ160E□□882MK345S	
90,000	12.5 × 350	0.001	0.001	90,250	ELXZ160E□□902MK350S	
92,000	12.5 × 355	0.001	0.001	91,690	ELXZ160E□□922MK355S	
94,000	12.5 × 360	0.001	0.001	93,130	ELXZ160E□□942MK360S	
96,000	12.5 × 365	0.001	0.001	94,570	ELXZ160E□□962MK365S	
98,000	12.5 × 370	0.001	0.001	96,010	ELXZ160E□□982MK370S	
100,000	12.5 × 375	0.001	0.001	97,450	ELXZ160E□□1002MK375S	
102,000	12.5 × 380	0.001	0.001	98,890	ELXZ160E□□1022MK380S	
104,000	12.5 × 385	0.001	0.001	100,330	ELXZ160E□□1042MK385S	
106,000	12.5 × 390	0.001	0.001	101,770	ELXZ160E□□1062MK390S	
108,000	12.5 × 395	0.001	0.001	103,210	ELXZ160E□□1082MK395S	
110,000	12.5					

◆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
100	1,500	18×35	0.030	0.060	3,100	ELXZ630E□□152MM35S
	1,800	18×40	0.025	0.050	3,210	ELXZ630E□□182MM40S

□□ : Fill with 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 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.