

KZE Series

- Newly innovative electrolyte is employed to minimize impedance
- Endurance with ripple current: 1,000 to 5,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

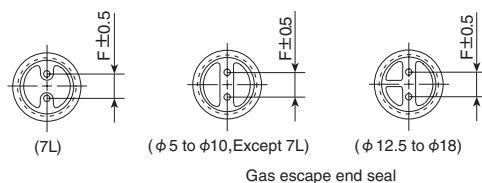
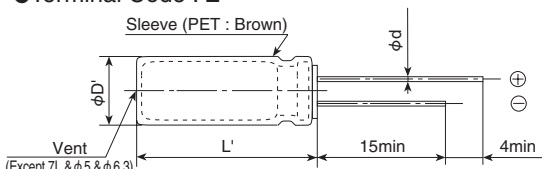


SPECIFICATIONS

Items	Characteristics										
Category	-40 to +105℃										
Temperature Range	-40 to +105℃										
Rated Voltage Range	6.3 to 100V _{dc}										
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 (tan δ)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	
	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08	
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20℃, 120Hz)										
Low Temperature Characteristics (Max. Impedance Ratio)	Z (-25℃) / Z (+20℃)	2max.									
	Z (-40℃) / Z (+20℃)	3max.									
Endurance	(at 120Hz)										
	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 (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105℃.										
	Time	7L : 1,000hours φ5 & φ6.3 : 2,000hours φ8 : 3,000hours φ10 : 4,000hours φ12.5 to φ18 : 5,000hours									
	Capacitance change	≤ ±25% of the initial value									
	D.F. (tan δ)	≤200% of the initial specified value									
Shelf Life	Leakage current	≤The initial specified value									
	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 500 hours at 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.										
	Capacitance change	≤ ±25% of the initial value									
	D.F. (tan δ)	≤200% of the initial specified value									
	Leakage current	≤The initial specified value									

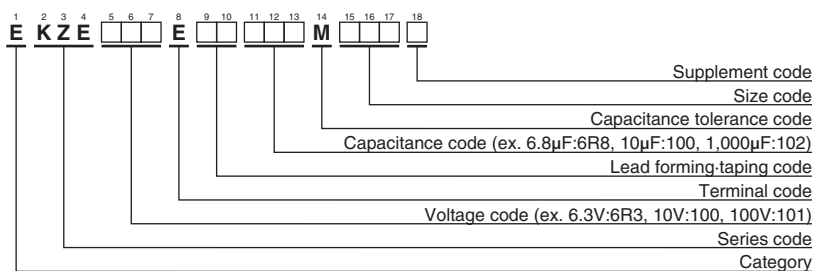
DIMENSIONS [mm]

Terminal Code : E



φD	5	6.3	8	10, 12.5	16, 18
φD'	7L	0.45	0.45	—	—
φD'	11L~	0.5	0.5	0.6	0.8
F	2.0	2.5	3.5	5.0	7.5
φD'	φD+0.5max.				
L'	L+1.5max.(7L : L+1.0max.)				

PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA rms/ 105°C, 100kHz)	Part No.	WV (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		
6.3	68	5×7	0.43	1.3	210	EKZE6R3E□□680ME07D	25	1,800	16×20	0.018	0.045	3,140	EKZE250E□□182ML20S
	150	5×11	0.30	1.0	250	EKZE6R3E□□151ME11D		2,200	12.5×35	0.015	0.039	3,400	EKZE250E□□222MK35S
	150	6.3×7	0.23	0.69	300	EKZE6R3E□□151MF07D		2,700	16×25	0.016	0.043	3,460	EKZE250E□□272ML25S
	330	6.3×11	0.13	0.41	405	EKZE6R3E□□331MF11D		35	18	5×7	0.47	1.5	210
	560	8×11.5	0.072	0.22	760	EKZE6R3E□□561MHB5D	33		5×11	0.30	1.0	250	EKZE350E□□330ME11D
	820	8×15	0.056	0.17	995	EKZE6R3E□□821MH15D	39		6.3×7	0.25	0.75	300	EKZE350E□□390MF07D
	1,000	10×12.5	0.053	0.16	1,030	EKZE6R3E□□102MJCS5	56		6.3×11	0.13	0.41	405	EKZE350E□□560MF11D
	1,200	8×20	0.041	0.13	1,250	EKZE6R3E□□122MH20D	150		8×11.5	0.072	0.22	760	EKZE350E□□151MHB5D
	1,200	10×16	0.038	0.12	1,430	EKZE6R3E□□122MJ16S	220		8×15	0.056	0.17	995	EKZE350E□□221MJ15D
	1,500	10×20	0.023	0.069	1,820	EKZE6R3E□□152MJ20S	220		10×12.5	0.053	0.16	1,030	EKZE350E□□221MJC5S
	2,200	10×25	0.022	0.066	2,150	EKZE6R3E□□222MJ25S	270		8×20	0.041	0.13	1,250	EKZE350E□□271MH20D
	3,300	12.5×20	0.021	0.053	2,360	EKZE6R3E□□332MK20S	330		10×16	0.038	0.12	1,430	EKZE350E□□331MJ16S
	3,900	12.5×25	0.018	0.045	2,770	EKZE6R3E□□392MK25S	470		10×20	0.023	0.069	1,820	EKZE350E□□471MJ20S
	4,700	12.5×30	0.016	0.041	3,290	EKZE6R3E□□472MK30S	560		10×25	0.022	0.066	2,150	EKZE350E□□561MJ25S
	5,600	12.5×35	0.015	0.039	3,400	EKZE6R3E□□562MK35S	680		12.5×20	0.021	0.053	2,360	EKZE350E□□681MK20S
	5,600	16×20	0.018	0.045	3,140	EKZE6R3E□□562ML20S	1,000	12.5×25	0.018	0.045	2,770	EKZE350E□□102MK25S	
6,800	16×25	0.016	0.043	3,460	EKZE6R3E□□562ML25S	1,200	12.5×30	0.016	0.041	3,290	EKZE350E□□122MK30S		
10	56	5×7	0.44	1.4	210	EKZE100E□□680ME07D	1,200	16×20	0.018	0.045	3,140	EKZE350E□□122ML20S	
	100	5×11	0.30	1.0	250	EKZE100E□□101ME11D	1,500	12.5×35	0.015	0.039	3,400	EKZE350E□□152MK35S	
	120	6.3×7	0.23	0.69	300	EKZE100E□□121MF07D	1,800	16×25	0.016	0.043	3,460	EKZE350E□□182ML25S	
	220	6.3×11	0.13	0.41	405	EKZE100E□□221MF11D	10	5×7	0.50	1.5	210	EKZE500E□□100ME07D	
	470	8×11.5	0.072	0.22	760	EKZE100E□□471MHB5D	22	5×11	0.34	1.18	238	EKZE500E□□220ME11D	
	680	8×15	0.056	0.17	995	EKZE100E□□681MH15D	22	6.3×7	0.26	0.78	300	EKZE500E□□220MF07D	
	680	10×12.5	0.053	0.16	1,030	EKZE100E□□681MJC5S	56	6.3×11	0.14	0.50	385	EKZE500E□□560MF11D	
	1,000	8×20	0.041	0.13	1,250	EKZE100E□□102MH20D	100	8×11.5	0.074	0.22	724	EKZE500E□□101MHB5D	
	1,000	10×16	0.038	0.12	1,430	EKZE100E□□102MJ16S	120	8×15	0.061	0.18	950	EKZE500E□□121MH15D	
	1,200	10×20	0.023	0.069	1,820	EKZE100E□□122MJ20S	150	10×12.5	0.061	0.18	979	EKZE500E□□151MJC5S	
	1,500	10×25	0.022	0.066	2,150	EKZE100E□□152MJ25S	180	8×20	0.046	0.14	1,190	EKZE500E□□181MH20D	
	2,200	12.5×20	0.021	0.053	2,360	EKZE100E□□222MK20S	220	10×16	0.042	0.12	1,370	EKZE500E□□221MJ16S	
	3,300	12.5×25	0.018	0.045	2,770	EKZE100E□□332MK25S	270	10×20	0.030	0.090	1,580	EKZE500E□□271MJ20S	
	3,900	12.5×30	0.016	0.041	3,290	EKZE100E□□392MK30S	330	10×25	0.028	0.085	1,870	EKZE500E□□331MJ25S	
	3,900	16×20	0.018	0.045	3,140	EKZE100E□□392ML20S	470	12.5×20	0.027	0.068	2,050	EKZE500E□□471MK20S	
	4,700	12.5×35	0.015	0.039	3,400	EKZE100E□□472MK35S	560	12.5×25	0.023	0.059	2,410	EKZE500E□□561MK25S	
5,600	16×25	0.016	0.043	3,460	EKZE100E□□562ML25S	680	12.5×30	0.021	0.052	2,860	EKZE500E□□681MK30S		
16	33	5×7	0.45	1.4	210	EKZE160E□□330ME07D	820	12.5×35	0.019	0.051	2,960	EKZE500E□□821MK35S	
	56	5×11	0.30	1.0	250	EKZE160E□□560ME11D	820	16×20	0.023	0.059	2,730	EKZE500E□□821ML20S	
	68	6.3×7	0.24	0.72	300	EKZE160E□□680MF07D	1,000	16×25	0.021	0.056	3,010	EKZE500E□□102ML25S	
	120	6.3×11	0.13	0.41	405	EKZE160E□□121MF11D	15	5×11	0.88	3.5	165	EKZE630E□□150ME11D	
	330	8×11.5	0.072	0.22	760	EKZE160E□□331MHB5D	33	6.3×11	0.35	1.4	265	EKZE630E□□330MF11D	
	470	8×15	0.056	0.17	995	EKZE160E□□471MH15D	56	8×11.5	0.22	0.88	500	EKZE630E□□560MHB5D	
	470	10×12.5	0.053	0.16	1,030	EKZE160E□□471MJC5S	82	8×15	0.16	0.64	665	EKZE630E□□820MH15D	
	680	8×20	0.041	0.13	1,250	EKZE160E□□681MH20D	82	10×12.5	0.11	0.44	690	EKZE630E□□820MJCS5	
	680	10×16	0.038	0.12	1,430	EKZE160E□□681MJ16S	120	8×20	0.12	0.48	820	EKZE630E□□121MH20D	
	1,000	10×20	0.023	0.069	1,820	EKZE160E□□102MJ20S	120	10×16	0.076	0.31	950	EKZE630E□□121MJ16S	
	1,200	10×25	0.022	0.066	2,150	EKZE160E□□122MJ25S	180	10×20	0.056	0.23	1,150	EKZE630E□□181MJ20S	
	1,500	12.5×20	0.021	0.053	2,360	EKZE160E□□152MK20S	180	12.5×16	0.072	0.29	1,150	EKZE630E□□181MK16S	
	2,200	12.5×25	0.018	0.045	2,770	EKZE160E□□222MK25S	220	10×25	0.046	0.19	1,350	EKZE630E□□221MJ25S	
	2,700	12.5×30	0.016	0.041	3,290	EKZE160E□□272MK30S	270	12.5×20	0.041	0.13	1,500	EKZE630E□□271MK20S	
	2,700	16×20	0.018	0.045	3,140	EKZE160E□□272ML20S	390	12.5×25	0.031	0.093	1,900	EKZE630E□□391MK25S	
	3,300	12.5×35	0.015	0.039	3,400	EKZE160E□□332MK35S	470	12.5×30	0.028	0.084	2,300	EKZE630E□□471MK30S	
3,900	16×25	0.016	0.043	3,460	EKZE160E□□392ML25S	470	16×20	0.032	0.096	2,000	EKZE630E□□471ML20S		
25	27	5×7	0.46	1.4	210	EKZE250E□□270ME07D	560	12.5×35	0.024	0.072	2,500	EKZE630E□□561MK35S	
	47	5×11	0.30	1.0	250	EKZE250E□□470ME11D	680	12.5×40	0.021	0.063	2,800	EKZE630E□□681MK40S	
	56	6.3×7	0.24	0.72	300	EKZE250E□□560MF07D	680	16×25	0.025	0.075	2,600	EKZE630E□□681ML25S	
	100	6.3×11	0.13	0.41	405	EKZE250E□□101MF11D	680	18×20	0.030	0.090	2,500	EKZE630E□□681MM20S	
	220	8×11.5	0.072	0.22	760	EKZE250E□□121MHB5D	820	16×31.5	0.021	0.063	2,850	EKZE630E□□821MLN3S	
	330	8×15	0.056	0.17	995	EKZE250E□□331MH15D	820	18×25	0.024	0.072	2,800	EKZE630E□□821ML25S	
	330	10×12.5	0.053	0.16	1,030	EKZE250E□□331MJC5S	1,000	16×35.5	0.019	0.057	2,900	EKZE630E□□102MLP1S	
	470	8×20	0.041	0.13	1,250	EKZE250E□□471MH20D	1,200	16×40	0.018	0.054	3,400	EKZE630E□□122ML40S	
	470	10×16	0.038	0.12	1,430	EKZE250E□□471MJ16S	1,200	18×31.5	0.020	0.060	3,300	EKZE630E□□122MMN3S	
	680	10×20	0.023	0.069	1,820	EKZE250E□□681MJ20S	1,500	18×35.5	0.018	0.054	3,400	EKZE630E□□152MMP1S	
	820	10×25	0.022	0.066	2,150	EKZE250E□□821MJ25S	1,800	18×40	0.017	0.051	3,500	EKZE630E□□182MM40S	
	1,000	12.5×20	0.021	0.053	2,360	EKZE250E□□102MK20S	68	10×12.5	0.17	0.66	480	EKZE800E□□680MJC5S	
	1,500	12.5×25	0.018	0.045	2,770	EKZE250E□□152MK25S	100	10×16	0.11	0.47	600	EKZE800E□□101MJ16S	
	1,800	12.5×30	0.016	0.041	3,290	EKZE250E□□182MK30S	120	10×20	0.084	0.34	800	EKZE800E□□121MJ20S	

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

KZE Series

◆STANDARD RATINGS

WV (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		
80	150	10×25	0.069	0.28	900	EKZE800E□□151MJ25S
	150	12.5×16	0.11	0.34	750	EKZE800E□□151MK16S
	220	12.5×20	0.062	0.18	1,100	EKZE800E□□221MK20S
	330	12.5×25	0.047	0.14	1,250	EKZE800E□□331MK25S
	330	16×20	0.048	0.15	1,350	EKZE800E□□331ML20S
	390	12.5×30	0.042	0.13	1,500	EKZE800E□□391MK30S
	470	12.5×35	0.036	0.11	1,650	EKZE800E□□471MK35S
	470	16×25	0.038	0.12	1,700	EKZE800E□□471ML25S
	470	18×20	0.045	0.14	1,500	EKZE800E□□471MM20S
	560	12.5×40	0.032	0.095	1,800	EKZE800E□□561MK40S
	680	16×31.5	0.032	0.095	1,850	EKZE800E□□681MLN3S
	680	18×25	0.036	0.11	1,750	EKZE800E□□681MM25S
	820	16×35.5	0.029	0.086	2,000	EKZE800E□□821MLP1S
	820	18×31.5	0.030	0.090	1,900	EKZE800E□□821MMN3S
	1,000	16×40	0.027	0.081	2,200	EKZE800E□□102ML40S
	1,000	18×35.5	0.027	0.081	2,200	EKZE800E□□102MMP1S
100	1,200	18×40	0.026	0.077	2,700	EKZE800E□□122MM40S
	6.8	5×11	1.4	5.6	125	EKZE101E□□6R8ME11D
	15	6.3×11	0.57	2.3	205	EKZE101E□□150MF11D
	27	8×11.5	0.36	1.4	355	EKZE101E□□270MHB5D
	39	8×15	0.25	1.0	450	EKZE101E□□390MH15D

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

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

7L

Capacitance(μF) \ Frequency(Hz)	120	1k	10k	100k
10 to 33	0.42	0.70	0.90	1.00
39 to 150	0.50	0.73	0.92	1.00

11L to 40L

Capacitance(μF) \ Frequency(Hz)	120	1k	10k	100k
6.8 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	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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

United Chemi-Con (UCC):

EKZE100ELL101ME11D	EKZE101ELL121MJ25S	EKZE101ELL151MK20S	EKZE101ELL221MK25S
EKZE101ELL331MM20S	EKZE100ELL681MJC5S	EKZE160ELL102MJ20S	EKZE160ELL681MJ16S
EKZE250ETD331MJC5S	EKZE350ELL331MJ16S	EKZE350ELL471MJ20S	EKZE350ELL681MK20S
EKZE500EC3102ML25S	EKZE500ELL271MJ20S	EKZE350ELL151MHB5D	EKZE500ELL102ML25S
EKZE350ETD221MJC5S	EKZE630ELL121MJ16S	EKZE630ETD121MJ16S	EKZE6R3ETC122MH20D
EKZE6R3ELL122MH20D	EKZE6R3ELL331MF11D	EKZE800ELL471MM20S	EKZE101ELL470MJC5S
EKZE250ETD471MJ16S	EKZE630ELL391MK25S	EKZE800ELL221MK20S	EKZE800ELL331ML20S
EKZE160ETD122MJ25S	EKZE100ELL102MH20D	EKZE100ELL392ML20S	EKZE250ETD821MJ25S
EKZE101ELL331MK35S	EKZE100ELL152MJ25S	EKZE101ELL681MMP1S	EKZE101ELL680MJ16S
EKZE100ETC101ME11D	EKZE100ELL122MJ20S	EKZE160ELL121MF11D	EKZE100ELL221MF11D
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EKZE630ELL471MK30S	EKZE101ELL390MH15D	EKZE100ETD221MF11D	EKZE101ELL101MK16S
EKZE101ELL821MM40S	EKZE101ELL221ML20S	EKZE100ELL471MHB5D	EKZE101ELL271MK30S
EKZE100ELL681MH15D	EKZE101ELL471MLN3N	EKZE101ELL471MM25S	EKZE101ELL561MLP1S
EKZE101ELL561MMN3S	EKZE160ELL332MK35S	EKZE100ELL392MK30S	EKZE250ELL331MJC5S
EKZE160ELL680MF07D	EKZE160ELL122MJ25S	EKZE160ELL152MK20S	EKZE160ELL222MK25S
EKZE160ELL272MK30S	EKZE250ETD152MK25S	EKZE160ELL331MHB5D	EKZE250ETC470ME11D
EKZE160ELL392ML25S	EKZE160ELL471MH15D	EKZE250ELL101MF11D	EKZE160ELL560ME11D
EKZE160ETD681MH20D	EKZE160ELL681MH20D	EKZE160ETC331MHB5D	EKZE160ETC681MH20D
EKZE160ELL272ML20S	EKZE250ELL222MK35S	EKZE100ELL472MK35S	EKZE100ELL562ML25S
EKZE100ELL102MJ16S	EKZE250ELL471MH20D	EKZE250ELL101MH07D	EKZE250ELL102MK20S
EKZE250ELL152MK25S	EKZE250ELL182MK30S	EKZE250ETD331MH15D	EKZE250ELL221MHB5D
EKZE250ELL272ML25S	EKZE250ELL331MH15D	EKZE101ETD560MH20S	EKZE250ELL470ME11D
EKZE160ETD272MK30S	EKZE250ELL471MJ16S	EKZE250ELL560MF07D	EKZE250ELL681MJ20S
EKZE250ELL821MJ25S	EKZE250ELL182ML20S	EKZE350ELL221MJC5S	EKZE250ETE102MK20S