



- Newly innovative electrolyte is employed to minimize impedance
- Endurance with ripple current: 2,000 to 5,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant



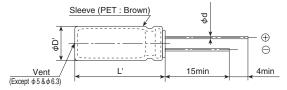


SPECIFICATIONS

Items	Characteristics									
Category 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, whiche Where, I: Max. leakage	ever is greater. current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)								
Dissipation Factor (tan δ)	Rated voltage (V _{dc}) tan δ (Max.) When nominal capacitan	6.3V 10V 16V 25V 35V 50V 63V 80V 100V								
Low Temperature Characteristics (Max. Impedance Ratio)	Z (-25°C) / Z (+20°C) Z (-40°C) / Z (+20°C)	2max. 3max. (at 120Hz)								
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage ripple current is applied (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105°C									
	Time	φ 5 & φ 6.3 : 2,000hours φ 8 : 3,000hours φ 10 : 4,000hours φ 12.5 to φ 18 : 5,000hours								
	Capacitance change	\leq ±25% of the initial value								
	D.F. (tan δ)	≦200% of the initial specified value								
	Leakage current	≦The initial specified value								
Shelf Life		is shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 105°C without a measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.								
	Capacitance change	$\leq \pm 25\%$ 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



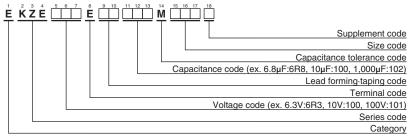


Gas escape end seal



φD	5	6.3	8	10, 12.5	16, 18						
φd	bd 0.5 0.5		0.6	0.6	0.8						
F	2.0 2.5 3.5		5.0	7.5							
φD'		φD+0.5max.									
L'		L+1.5max.									

◆PART NUMBERING SYSTEM



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





STANDARD RATINGS

_	◆STANDARD RATINGS												
wv	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current		wv	Cap (µF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current	
(V _{dc})			20℃	-10℃	(mArms/ 105℃, 100kHz)	Part No.				20℃	-10℃	(mArms/ 105°C, 100kHz)	Part No.
	150	5×11	0.30	1.0	250	EKZE6R3E□□151ME11D		270	8×20	0.041	0.13	1,250	EKZE350E□□271MH20D
	330	6.3×11	0.13	0.41	405	EKZE6R3E□□331MF11D		330	10×16	0.038	0.12	1,430	EKZE350E□□331MJ16S
	560	8×11.5	0.072	0.22	760	EKZE6R3E□□561MHB5D		470	10×20	0.023	0.069	1,820	EKZE350E□□471MJ20S
	820	8×15	0.056	0.17	995	EKZE6R3E B21MH15D		560	10×25	0.022	0.066	2,150	EKZE350E 561MJ25S
	1,000	10×12.5	0.053	0.16	1,030	EKZE6R3E 102MJC5S	35	680	12.5×20	0.021	0.053	2,360	EKZE350E G81MK20S
	1,200 1,200	8×20 10×16	0.041	0.13	1,250 1,430	EKZE6R3E□□122MH20D EKZE6R3E□□122MJ16S		1,000 1,200	12.5×25 12.5×30	0.018	0.045	2,770 3,290	EKZE350E□□102MK25S EKZE350E□□122MK30S
6.3	1,500	10×16	0.038	0.12	1,430	EKZE6R3E 152MJ20S		1,200	16×20	0.018	0.041	3,290	EKZE350E T22MK30S EKZE350E T122ML20S
0.3	2,200	10×25	0.023	0.066	2,150	EKZE6R3E 222MJ25S		1,500	12.5×35	0.015	0.043	3,400	EKZE350E 152MK35S
	3,300	12.5×20	0.021	0.053	2,360	EKZE6R3E 332MK20S		1,800	16×25	0.016	0.043	3,460	EKZE350E 182ML25S
	3,900	12.5×25	0.018	0.045	2,770	EKZE6R3E□□392MK25S		22	5×11	0.34	1.18	238	EKZE500E□□220ME11D
	4,700	12.5×30	0.016	0.041	3,290	EKZE6R3E□□472MK30S	i	56	6.3×11	0.14	0.50	385	EKZE500E□□560MF11D
	5,600	12.5×35	0.015	0.039	3,400	EKZE6R3E□□562MK35S	İ	100	8×11.5	0.074	0.22	724	EKZE500E□□101MHB5D
	5,600	16×20	0.018	0.045	3,140	EKZE6R3E□□562ML20S		120	8×15	0.061	0.18	950	EKZE500E□□121MH15D
	6,800	16×25	0.016	0.043	3,460	EKZE6R3E□□682ML25S		150	10×12.5	0.061	0.18	979	EKZE500E□□151MJC5S
	100	5×11	0.30	1.0	250	EKZE100E□□101ME11D		180	8×20	0.046	0.14	1,190	EKZE500E□□181MH20D
	220	6.3×11	0.13	0.41	405	EKZE100E 221MF11D		220	10×16	0.042	0.12	1,370	EKZE500E□□221MJ16S
	470	8×11.5	0.072	0.22	760	EKZE100E 471MHB5D	50	270	10×20	0.030	0.090	1,580	EKZE500E 271MJ20S
	680	8×15	0.056	0.17	995	EKZE100E G81MH15D		330	10×25	0.028	0.085	1,870	EKZE500E 331MJ25S
	680	10×12.5	0.053	0.16	1,030	EKZE100E G81MJC5S		470	12.5×20	0.027	0.068	2,050	EKZE500E 471MK20S
	1,000	8×20 10×16	0.041	0.13	1,250	EKZE100E 102MH20D		560	12.5×25	0.023	0.059	2,410 2,860	EKZE500E□□561MK25S EKZE500E□□681MK30S
10	1,200	10×16	0.038	0.12	1,430 1,820	EKZE100E□□102MJ16S EKZE100E□□122MJ20S		680 820	12.5×30 12.5×35	0.021	0.052	2,860	EKZE500E 821MK35S
10	1,500	10×25	0.023	0.066	2,150	EKZE100E 152MJ25S		820	16×20	0.013	0.051	2,730	EKZE500E B21ML20S
	2,200	12.5×20	0.021	0.053	2,360	EKZE100E 222MK20S		1,000	16×25	0.021	0.056	3,010	EKZE500E 102ML25S
	3,300	12.5×25	0.018	0.045	2,770	EKZE100E 332MK25S		15	5×11	0.88	3.5	165	EKZE630E 150ME11D
i i	3,900	12.5×30	0.016	0.041	3,290	EKZE100E□□392MK30S		33	6.3×11	0.35	1.4	265	EKZE630E□□330MF11D
	3,900	16×20	0.018	0.045	3,140	EKZE100E□□392ML20S		56	8×11.5	0.22	0.88	500	EKZE630E□□560MHB5D
	4,700	12.5×35	0.015	0.039	3,400	EKZE100E□□472MK35S		82	8×15	0.16	0.64	665	EKZE630E□□820MH15D
\Box	5,600	16×25	0.016	0.043	3,460	EKZE100E□□562ML25S		82	10×12.5	0.11	0.44	690	EKZE630E□□820MJC5S
	56	5×11	0.30	1.0	250	EKZE160E□□560ME11D		120	8×20	0.12	0.48	820	EKZE630E□□121MH20D
	120	6.3×11	0.13	0.41	405	EKZE160E□□121MF11D		120	10×16	0.076	0.31	950	EKZE630E□□121MJ16S
	330	8×11.5	0.072	0.22	760	EKZE160E 331MHB5D		180	10×20	0.056	0.23	1,150	EKZE630E□□181MJ20S
	470	8×15	0.056	0.17	995	EKZE160E 471MH15D		180	12.5×16	0.072	0.29	1,150	EKZE630E 181MK16S
	470	10×12.5	0.053	0.16	1,030	EKZE160E 471MJC5S		220	10×25	0.046	0.19	1,350	EKZE630E 221MJ25S
	680 680	8×20 10×16	0.041	0.13	1,250 1,430	EKZE160E□□681MH20D EKZE160E□□681MJ16S		270 390	12.5×20	0.041	0.13	1,500 1,900	EKZE630E□□271MK20S EKZE630E□□391MK25S
16	1,000	10×16	0.038	0.12	1,820	EKZE160E 102MJ20S	63	470	12.5×25 12.5×30	0.031	0.093	2,300	EKZE630E 471MK30S
10	1,200	10×25	0.023	0.066	2,150	EKZE160E 122MJ25S	03	470	16×20	0.028	0.004	2,000	EKZE630E 471ML20S
	1,500	12.5×20	0.021	0.053	2,360	EKZE160E 152MK20S		560	12.5×35	0.024	0.072	2,500	EKZE630E 561MK35S
	2,200	12.5×25	0.018	0.045	2,770	EKZE160E□□222MK25S		680	12.5×40	0.021	0.063	2,800	EKZE630E□□681MK40S
	2,700	12.5×30	0.016	0.041	3,290	EKZE160E□□272MK30S	i	680	16×25	0.025	0.075	2,600	EKZE630E□□681ML25S
	2,700	16×20	0.018	0.045	3,140	EKZE160E□□272ML20S	İ	680	18×20	0.030	0.090	2,500	EKZE630E□□681MM20S
	3,300	12.5×35		0.039	3,400	EKZE160E□□332MK35S		820	16×31.5	0.021	0.063	2,850	EKZE630E□□821MLN3S
Ш	3,900	16×25	0.016		3,460	EKZE160E□□392ML25S		820	18×25	0.024	0.072	2,800	EKZE630E□□821MM25S
	47	5×11	0.30	1.0	250	EKZE250E□□470ME11D		1,000	16×35.5	-	0.057	2,900	EKZE630E□□102MLP1S
	100	6.3×11	0.13	0.41	405	EKZE250E 101MF11D		1,200	16×40	0.018	0.054	3,400	EKZE630E 122ML40S
	220	8×11.5		0.22	760	EKZE250E□□221MHB5D		1,200	18×31.5		0.060	3,300	EKZE630E 122MMN3S
	330	8×15	0.056	0.17	995	EKZE250E □ □ 331MH15D EKZE250E □ □ 331MJC5S		1,500	18×35.5		0.054	3,400	EKZE630E □ □ 152MMP1S EKZE630E □ □ 182MM40S
	330 470	10×12.5	0.053	0.16	1,030	EKZE250E 471MH20D	-	1,800	18×40	0.017	0.051	3,500	
	470	8×20 10×16	0.041	0.13	1,250 1,430	EKZE250E 471MJ16S		68 100	10×12.5 10×16	0.17	0.66 0.47	480 600	EKZE800E□□680MJC5S EKZE800E□□101MJ16S
25	680	10×10	0.023	0.069	1,820	EKZE250E 681MJ20S		120	10×10	0.084	0.34	800	EKZE800E 121MJ20S
20	820	10×25	0.022	0.066	2,150	EKZE250E B21MJ25S		150	10×25	0.069	0.28	900	EKZE800E 151MJ25S
	1,000	12.5×20	0.021	0.053	2,360	EKZE250E 102MK20S		150	12.5×16	0.11	0.34	750	EKZE800E 151MK16S
	1,500	12.5×25	0.018		2,770	EKZE250E□□152MK25S	80	220	12.5×20	0.062	0.18	1,100	EKZE800E□□221MK20S
	1,800	12.5×30	0.016		3,290	EKZE250E 182MK30S		330	12.5×25	0.047	0.14	1,250	EKZE800E□□331MK25S
	1,800	16×20	0.018	1	3,140	EKZE250E□□182ML20S		330	16×20	0.048	0.15	1,350	EKZE800E□□331ML20S
	2,200	12.5×35	0.015		3,400	EKZE250E□□222MK35S		390	12.5×30	0.042	0.13	1,500	EKZE800E□□391MK30S
	2,700	16×25	0.016	0.043	3,460	EKZE250E□□272ML25S		470	12.5×35	0.036	0.11	1,650	EKZE800E□□471MK35S
	33	5×11	0.30	1.0	250	EKZE350E□□330ME11D		470	16×25	0.038	0.12	1,700	EKZE800E□□471ML25S
	56	6.3×11	0.13	0.41	405	EKZE350E□□560MF11D		470	18×20	0.045	0.14	1,500	EKZE800E□□471MM20S
35	150	8×11.5		0.22	760	EKZE350E□□151MHB5D		560	12.5×40	0.032	0.095	1,800	EKZE800E□□561MK40S
	220	8×15	0.056		995	EKZE350E 221MH15D		680	16×31.5	0.032	0.095	1,850	EKZE800E G681MLN3S
	220	10×12.5	0.053	0.16	1,030	EKZE350E□□221MJC5S		680	18×25	0.036	0.11	1,750	EKZE800E□□681MM25S

 $\square\,\square$: Enter the appropriate lead forming or taping code.





STANDARD RATINGS

wv	Cap (µF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current	Dort No.	wv	Сар	Case size	Impedance (Ω max./100kHz)		Rated ripple current	Part No.
(V _{dc})			20℃	-10℃	(mArms/ 105℃, 100kHz)	Part No.	(V _{dc})	(μF)	φD×L(mm)	20℃	-10℃	(mArms/ 105℃, 100kHz)	
	820	16×35.5	0.029	0.086	2,000	EKZE800E□□821MLP1S		150	12.5×20	0.062	0.18	1,100	EKZE101E□□151MK20S
	820	18×31.5	0.030	0.090	1,900	EKZE800E□□821MMN3S		220	12.5×25	0.047	0.14	1,250	EKZE101E□□221MK25S
80	1,000	16×40	0.027	0.081	2,200	EKZE800E□□102ML40S		220	16×20	0.048	0.15	1,350	EKZE101E□□221ML20S
	1,000	18×35.5	0.027	0.081	2,200	EKZE800E□□102MMP1S		270	12.5×30	0.042	0.13	1,500	EKZE101E□□271MK30S
	1,200	18×40	0.026	0.077	2,700	EKZE800E□□122MM40S		330	12.5×35	0.036	0.11	1,650	EKZE101E□□331MK35S
	6.8	5×11	1.4	5.6	125	EKZE101E□□6R8ME11D		330	16×25	0.038	0.12	1,700	EKZE101E□□331ML25S
	15	6.3×11	0.57	2.3	205	EKZE101E□□150MF11D		330	18×20	0.045	0.14	1,500	EKZE101E□□331MM20S
	27	8×11.5	0.36	1.4	355	EKZE101E□□270MHB5D	100	390	12.5×40	0.032	0.095	1,800	EKZE101E□□391MK40S
	39	8×15	0.25	1.0	450	EKZE101E□□390MH15D		470	16×31.5	0.032	0.095	1,850	EKZE101E□□471MLN3S
100	47	10×12.5	0.17	0.66	480	EKZE101E□□470MJC5S		470	18×25	0.036	0.11	1,750	EKZE101E□□471MM25S
1100	56	8×20	0.19	0.76	565	EKZE101E□□560MH20D		560	16×35.5	0.029	0.086	2,000	EKZE101E□□561MLP1S
	68	10×16	0.11	0.47	600	EKZE101E□□680MJ16S		560	18×31.5	0.030	0.090	1,900	EKZE101E□□561MMN3S
	82	10×20	0.084	0.34	800	EKZE101E□□820MJ20S		680	16×40	0.027	0.081	2,200	EKZE101E□□681ML40S
	100	12.5×16	0.11	0.34	750	EKZE101E□□101MK16S		680	18×35.5	0.027	0.081	2,200	EKZE101E□□681MMP1S
	120	10×25	0.069	0.28	900	EKZE101E□□121MJ25S		820	18×40	0.026	0.077	2,700	EKZE101E□□821MM40S

 $[\]square$: Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

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.