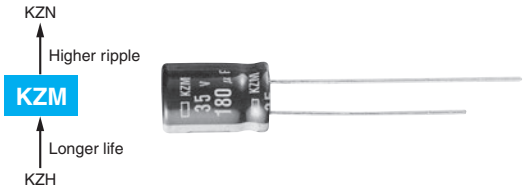
KZM Series

- Long-Life version of KZH series
- Endurance with ripple current : 10,000 hours at 105℃
- Newly innovative electrolyte is employed to minimize ESR
- Rated voltage range : 6.3 to 50Vdc, Nominal capacitance range : 150 to 10,000μF
- Non solvent resistant type
- RoHS2 Compliant

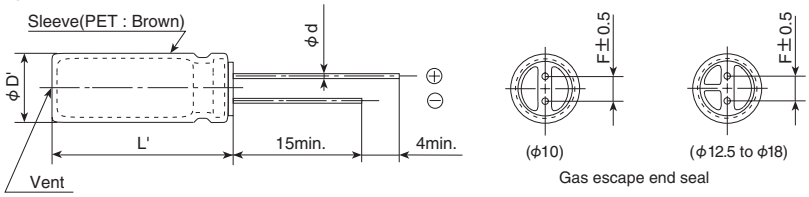


◆SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-40 to +105℃						
Rated Voltage Range	6.3 to 50Vdc						
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 (Vdc)	6.3V	10V	16V	25V	35V	50V
	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10
	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.					
	(at 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 (the peak voltage shall not exceed the rated voltage) for 10,000 hours at 105℃.						
	Capacitance change	≦±25% of the initial value (6.3, 10Vdc : ≦± 30%)					
	D.F. (tan δ)	≦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 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 (6.3, 10Vdc : ≦±30%)					
	D.F. (tan δ)	≦200% of the initial specified value					
	Leakage current	≦The initial specified value					

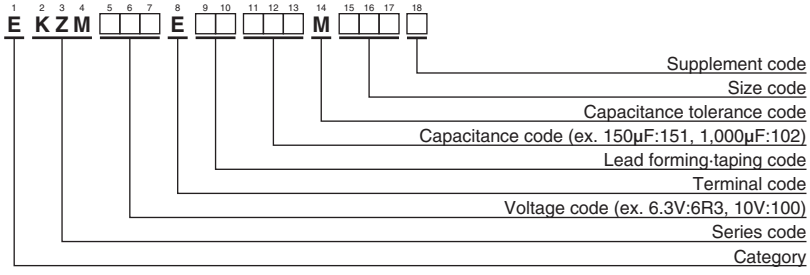
◆DIMENSIONS [mm]

●Terminal Code : E



φD	10	12.5	16	18
φd	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5
φD'	φD+0.5max.			
L'	L+1.5max.			

◆PART NUMBERING SYSTEM



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

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance(μF) \ Frequency(Hz)	120	1k	10k	100k
150	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 10,000	0.85	0.95	0.98	1.00

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.

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KZM Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Impedance (Ω max./100kHz)		Rated ripple current (mArms/105℃, 100kHz)	Part No.
				20℃	-10℃		
6.3	1,200	10×12.5	0.22	0.039	0.14	1,330	EKZM6R3E□□122MJC5S
	1,800	10×16	0.22	0.028	0.10	1,760	EKZM6R3E□□182MJ16S
	2,200	10×20	0.24	0.020	0.060	1,960	EKZM6R3E□□222MJ20S
	2,700	10×25	0.24	0.018	0.054	2,250	EKZM6R3E□□272MJ25S
	3,900	12.5×20	0.26	0.017	0.043	2,480	EKZM6R3E□□392MK20S
	4,700	12.5×25	0.28	0.015	0.038	2,900	EKZM6R3E□□472MK25S
	5,600	12.5×30	0.30	0.013	0.033	3,450	EKZM6R3E□□562MK30S
	6,800	12.5×35	0.32	0.012	0.031	3,570	EKZM6R3E□□682MK35S
	6,800	16×20	0.32	0.015	0.038	3,250	EKZM6R3E□□682ML20S
	8,200	16×25	0.36	0.013	0.035	3,630	EKZM6R3E□□822ML25S
	10,000	18×25	0.40	0.012	0.031	3,650	EKZM6R3E□□103MM25S
10	1,000	10×12.5	0.19	0.039	0.14	1,330	EKZM100E□□102MJC5S
	1,500	10×16	0.19	0.028	0.10	1,760	EKZM100E□□152MJ16S
	1,800	10×20	0.19	0.020	0.060	1,960	EKZM100E□□182MJ20S
	2,200	10×25	0.21	0.018	0.054	2,250	EKZM100E□□222MJ25S
	3,300	12.5×20	0.23	0.017	0.043	2,480	EKZM100E□□332MK20S
	3,900	12.5×25	0.23	0.015	0.038	2,900	EKZM100E□□392MK25S
	4,700	12.5×30	0.25	0.013	0.033	3,450	EKZM100E□□472MK30S
	4,700	16×20	0.25	0.015	0.038	3,250	EKZM100E□□472ML20S
	5,600	12.5×35	0.27	0.012	0.031	3,570	EKZM100E□□562MK35S
	6,800	16×25	0.29	0.013	0.035	3,630	EKZM100E□□682ML25S
	8,200	18×25	0.33	0.012	0.031	3,650	EKZM100E□□822MM25S
16	680	10×12.5	0.16	0.039	0.14	1,330	EKZM160E□□681MJC5S
	1,000	10×16	0.16	0.028	0.10	1,760	EKZM160E□□102MJ16S
	1,500	10×20	0.16	0.020	0.060	1,960	EKZM160E□□152MJ20S
	1,800	10×25	0.16	0.018	0.054	2,250	EKZM160E□□182MJ25S
	2,200	12.5×20	0.18	0.017	0.043	2,480	EKZM160E□□222MK20S
	2,700	12.5×25	0.18	0.015	0.038	2,900	EKZM160E□□272MK25S
	3,300	12.5×30	0.20	0.013	0.033	3,450	EKZM160E□□332MK30S
	3,300	16×20	0.20	0.015	0.038	3,250	EKZM160E□□332ML20S
	3,900	12.5×35	0.20	0.012	0.031	3,570	EKZM160E□□392MK35S
	4,700	16×25	0.22	0.013	0.035	3,630	EKZM160E□□472ML25S
	5,600	18×25	0.24	0.012	0.031	3,650	EKZM160E□□562MM25S

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

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KZM Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Impedance (Ω max./100kHz)		Rated ripple current (mArms/105℃, 100kHz)	Part No.
				20℃	-10℃		
25	470	10×12.5	0.14	0.039	0.14	1,330	EKZM250E□□471MJC5S
	680	10×16	0.14	0.028	0.10	1,760	EKZM250E□□681MJ16S
	820	10×20	0.14	0.020	0.060	1,960	EKZM250E□□821MJ20S
	1,000	10×25	0.14	0.018	0.054	2,250	EKZM250E□□102MJ25S
	1,500	12.5×20	0.14	0.017	0.043	2,480	EKZM250E□□152MK20S
	1,800	12.5×25	0.14	0.015	0.038	2,900	EKZM250E□□182MK25S
	2,200	12.5×30	0.16	0.013	0.033	3,450	EKZM250E□□222MK30S
	2,200	16×20	0.16	0.015	0.038	3,250	EKZM250E□□222ML20S
	2,700	12.5×35	0.16	0.012	0.031	3,570	EKZM250E□□272MK35S
	3,300	16×25	0.18	0.013	0.035	3,630	EKZM250E□□332ML25S
	3,900	18×25	0.18	0.012	0.031	3,650	EKZM250E□□392MM25S
35	330	10×12.5	0.12	0.039	0.14	1,330	EKZM350E□□331MJC5S
	470	10×16	0.12	0.028	0.10	1,760	EKZM350E□□471MJ16S
	560	10×20	0.12	0.020	0.060	1,960	EKZM350E□□561MJ20S
	680	10×25	0.12	0.018	0.054	2,250	EKZM350E□□681MJ25S
	1,000	12.5×20	0.12	0.017	0.043	2,480	EKZM350E□□102MK20S
	1,200	12.5×25	0.12	0.015	0.038	2,900	EKZM350E□□122MK25S
	1,500	12.5×30	0.12	0.013	0.033	3,450	EKZM350E□□152MK30S
	1,500	16×20	0.12	0.015	0.038	3,250	EKZM350E□□152ML20S
	1,800	12.5×35	0.12	0.012	0.031	3,570	EKZM350E□□182MK35S
	2,200	16×25	0.14	0.013	0.035	3,630	EKZM350E□□222ML25S
	2,700	18×25	0.14	0.012	0.031	3,650	EKZM350E□□272MM25S
50	150	10×12.5	0.10	0.061	0.18	979	EKZM500E□□151MJC5S
	220	10×16	0.10	0.042	0.12	1,370	EKZM500E□□221MJ16S
	270	10×20	0.10	0.030	0.090	1,580	EKZM500E□□271MJ20S
	330	10×25	0.10	0.028	0.085	1,870	EKZM500E□□331MJ25S
	470	12.5×20	0.10	0.027	0.068	2,050	EKZM500E□□471MK20S
	560	12.5×25	0.10	0.023	0.059	2,410	EKZM500E□□561MK25S
	680	12.5×30	0.10	0.021	0.052	2,860	EKZM500E□□681MK30S
	820	12.5×35	0.10	0.019	0.051	2,960	EKZM500E□□821MK35S
	820	16×20	0.10	0.023	0.059	2,730	EKZM500E□□821ML20S
	1,000	16×25	0.10	0.021	0.056	3,010	EKZM500E□□102ML25S
	1,500	18×25	0.10	0.019	0.051	3,290	EKZM500E□□152MM25S

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Part Numbering System
Part Numbering System (Appendix)
Standardization
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming and Packaging
Available Terminals for Snap-in and Screw Mount Type

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