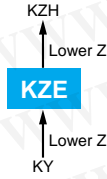


# KZE Series

- Ultra Low impedance for Personal Computers Storage Equipment
- Endurance with ripple current: 1,000 to 5,000 hours at 105°C
- Non solvent resistant type
- RoHS Compliant

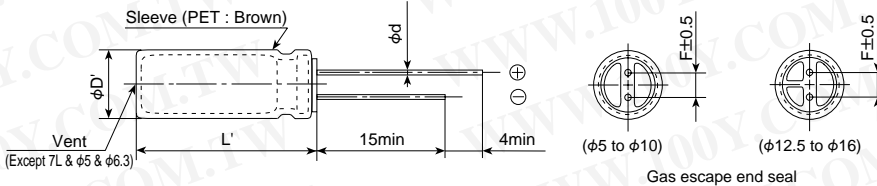


## ◆ SPECIFICATIONS

Items	Characteristics
Category	
Temperature Range	-40 to +105°C
Rated Voltage Range	6.3 to 100V <sub>dc</sub>
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 <sub>dc</sub> )
	tanδ (Max.)
Low Temperature Characteristics (Max. Impedance Ratio)	Z (-25°C) / Z (+20°C) 2max. Z (-40°C) / Z (+20°C) 3max. (at 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
	Capacitance change
	D.F. (tanδ)
	Leakage current
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 105°C 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
	D.F. (tanδ)
	Leakage current

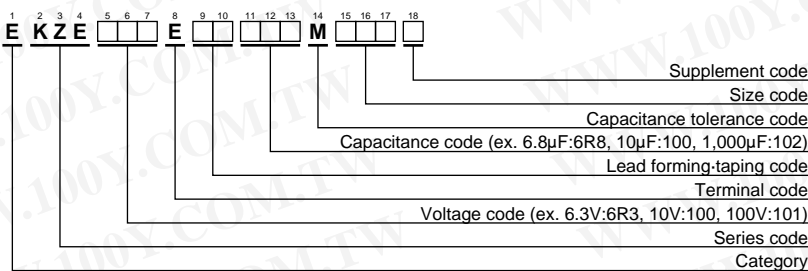
## ◆ DIMENSIONS [mm]

- Terminal Code : E



φD	5	6.3	8	10, 12.5	16, 18
7L	0.45	0.45	0.45	—	—
11L~	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.(7L : L+1.0max.)				

## ◆ PART NUMBERING SYSTEM



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

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STANDARD RATINGS

Table with columns: WV (Vdc), Cap (µF), Case size φD×L(mm), Impedance (Ωmax/100kHz) at 20°C and -10°C, Rated ripple current (mA rms/105°C, 100kHz), Part No. The table is organized into sections for WV values of 6.3, 10, 16, and 25.

□ : Enter the appropriate lead forming or taping code.

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mArms/ 105°C, 100kHz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mArms/ 105°C, 100kHz)	Part No.
			20°C	-10°C						20°C	-10°C		
63	1,200	18×31.5	0.020	0.060	3,300	EKZE630E□□122MMN3S	100	6.8	5×11	1.4	5.6	125	EKZE101E□□6R8ME11D
	1,500	18×35.5	0.018	0.054	3,400	EKZE630E□□152MMP1S		15	6.3×11	0.57	2.3	205	EKZE101E□□150MF11D
	1,800	18×40	0.017	0.051	3,500	EKZE630E□□182MM40S		27	8×11.5	0.36	1.4	355	EKZE101E□□270MHB5D
80	68	10×12.5	0.17	0.66	480	EKZE800E□□680MJC5S		39	8×15	0.25	1.0	450	EKZE101E□□390MH15D
	100	10×16	0.11	0.47	600	EKZE800E□□101MJ16S		47	10×12.5	0.17	0.66	480	EKZE101E□□470MJC5S
	120	10×20	0.084	0.34	800	EKZE800E□□121MJ20S		56	8×20	0.19	0.76	565	EKZE101E□□560MH20D
	150	10×25	0.069	0.28	900	EKZE800E□□151MJ25S		68	10×16	0.11	0.47	600	EKZE101E□□680MJ16S
	150	12.5×16	0.11	0.34	750	EKZE800E□□151MK16S		82	10×20	0.084	0.34	800	EKZE101E□□820MJ20S
	220	12.5×20	0.062	0.18	1,100	EKZE800E□□221MK20S		100	12.5×16	0.11	0.34	750	EKZE101E□□101MK16S
	330	12.5×25	0.047	0.14	1,250	EKZE800E□□331MK25S		120	10×25	0.069	0.28	900	EKZE101E□□121MJ25S
	330	16×20	0.048	0.15	1,350	EKZE800E□□331ML20S		150	12.5×20	0.062	0.18	1,100	EKZE101E□□151MK20S
	390	12.5×30	0.042	0.13	1,500	EKZE800E□□391MK30S		220	12.5×25	0.047	0.14	1,250	EKZE101E□□221MK25S
	470	12.5×35	0.036	0.11	1,650	EKZE800E□□471MK35S		220	16×20	0.048	0.15	1,350	EKZE101E□□221ML20S
	470	16×25	0.038	0.12	1,700	EKZE800E□□471ML25S		270	12.5×30	0.042	0.13	1,500	EKZE101E□□271MK30S
	470	18×20	0.045	0.14	1,500	EKZE800E□□471MM20S		330	12.5×35	0.036	0.11	1,650	EKZE101E□□331MK35S
	560	12.5×40	0.032	0.095	1,800	EKZE800E□□561MK40S		330	16×25	0.038	0.12	1,700	EKZE101E□□331ML25S
	680	16×31.5	0.032	0.095	1,850	EKZE800E□□681MLN3S		330	18×20	0.045	0.14	1,500	EKZE101E□□331MM20S
	680	18×25	0.036	0.11	1,750	EKZE800E□□681MM25S		390	12.5×40	0.032	0.095	1,800	EKZE101E□□391MK40S
	820	16×35.5	0.029	0.086	2,000	EKZE800E□□821MLP1S		470	16×31.5	0.032	0.095	1,850	EKZE101E□□471MLN3S
	820	18×31.5	0.030	0.090	1,900	EKZE800E□□821MMN3S		470	18×25	0.036	0.11	1,750	EKZE101E□□471MM25S
	1,000	16×40	0.027	0.081	2,200	EKZE800E□□102ML40S		560	16×35.5	0.029	0.086	2,000	EKZE101E□□561MLP1S
	1,000	18×35.5	0.027	0.081	2,200	EKZE800E□□102MMP1S		560	18×31.5	0.030	0.090	1,900	EKZE101E□□561MMN3S
	1,200	18×40	0.026	0.077	2,700	EKZE800E□□122MM40S		680	16×40	0.027	0.081	2,200	EKZE101E□□681ML40S
						680		18×35.5	0.027	0.081	2,200	EKZE101E□□681MMP1S	
						820		18×40	0.026	0.077	2,700	EKZE101E□□821MM40S	

□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance(μF)	Frequency (Hz)			
	120	1k	10k	100k
10 to 33	0.42	0.70	0.90	1.00
39 to 220	0.50	0.73	0.92	1.00

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.

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