

Aluminum Electrolytic Capacitors

KZG Series

- Super low ESR/impedance capacitors due to very low resistivity electrolyte
- Rated voltage range : 6.3 to 16V, Nominal capacitance range : 470 to 3,300 μ F
- Assured lifetime: 2,000 hours at 105°C with the rated ripple current applied
- The KZG series capacitors are designed for computer motherboards
- Non solvent-proof

Feature!

For PC Motherboards

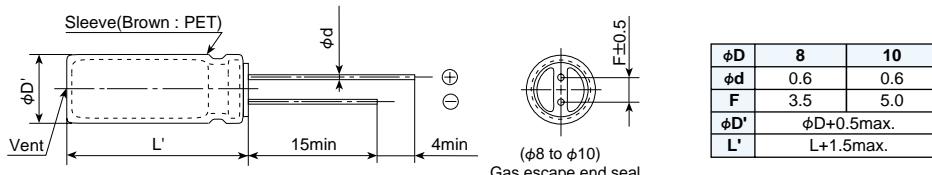


◆SPECIFICATIONS

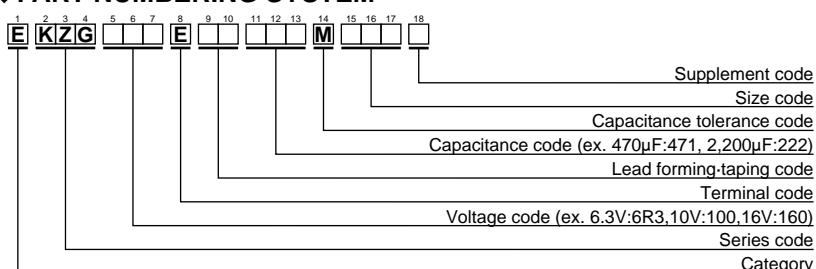
Items	Characteristics															
Category																
Temperature Range	-40 to +105°C															
Rated Voltage Range	6.3 to 16Vdc															
Capacitance Tolerance	$\pm 20\%$ (M)															
Leakage Current	$I=0.01CV$ or $3\mu A$, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (Vdc)															
Dissipation Factor ($\tan\delta$)	<table border="1"> <tr> <td>Rated voltage (Vdc)</td> <td>6.3V</td> <td>10V</td> <td>16V</td> </tr> <tr> <td>$\tan\delta$ (Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> </tr> </table> <p>When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase.</p>				Rated voltage (Vdc)	6.3V	10V	16V	$\tan\delta$ (Max.)	0.22	0.19	0.16				
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Low Temperature Characteristics (Max. Impedance Ratio)	<table border="1"> <tr> <td>Rated voltage (Vdc)</td> <td>6.3V</td> <td>10V</td> <td>16V</td> </tr> <tr> <td>Z (-25°C) / Z (+20°C)</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z (-40°C) / Z (+20°C)</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>				Rated voltage (Vdc)	6.3V	10V	16V	Z (-25°C) / Z (+20°C)	2	2	2	Z (-40°C) / Z (+20°C)	3	3	3
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Endurance	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current for 2,000 hours at 105°C.</p> <p>The sum of the DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitors.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>$\leq \pm 25\%$ of the initial measured value</td> </tr> <tr> <td>D.F. ($\tan\delta$)</td> <td>$\leq 200\%$ of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>\leq The initial specified value</td> </tr> </table>				Capacitance change	$\leq \pm 25\%$ of the initial measured value	D.F. ($\tan\delta$)	$\leq 200\%$ of the initial specified value	Leakage current	\leq The initial specified value						
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Shelf Life	<p>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. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>$\leq \pm 25\%$ of the initial measured value</td> </tr> <tr> <td>D.F. ($\tan\delta$)</td> <td>$\leq 200\%$ of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>\leq The initial specified value</td> </tr> </table>				Capacitance change	$\leq \pm 25\%$ of the initial measured value	D.F. ($\tan\delta$)	$\leq 200\%$ of the initial specified value	Leakage current	\leq The initial specified value						
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◆DIMENSIONS [mm]

- Terminal Code : E



◆PART NUMBERING SYSTEM



Specifications in this bulletin are subject to change without notice.

KZG Series

◆STANDARD RATINGS

WV(Vdc)	Cap(μF)	Case size ΦDXL(mm)	Impedance (Ωmax/20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	Part No.
6.3	820	8×11.5	0.036	1,140	EKZG6R3E□□821MHB5D
	1,200	8×15	0.028	1,490	EKZG6R3E□□122MH15D
	1,500	10×12.5	0.026	1,540	EKZG6R3E□□152MJC5S
	1,800	8×20	0.021	1,870	EKZG6R3E□□182MH20D
	1,800	10×16	0.019	2,000	EKZG6R3E□□182MJ16S
	2,200	10×20	0.013	2,550	EKZG6R3E□□222MJ20S
	3,300	10×25	0.012	2,800	EKZG6R3E□□332MJ25S
10	680	8×11.5	0.036	1,140	EKZG100E□□681MHB5D
	1,000	8×15	0.028	1,490	EKZG100E□□102MH15D
	1,000	10×12.5	0.026	1,540	EKZG100E□□102MJC5S
	1,500	8×20	0.021	1,870	EKZG100E□□152MH20D
	1,500	10×16	0.019	2,000	EKZG100E□□152MJ16S
	1,800	10×20	0.013	2,550	EKZG100E□□182MJ20S
	2,200	10×25	0.012	2,800	EKZG100E□□222MJ25S
16	470	8×11.5	0.036	1,140	EKZG160E□□471MHB5D
	680	8×15	0.028	1,490	EKZG160E□□681MH15D
	680	10×12.5	0.026	1,540	EKZG160E□□681MJC5S
	1,000	8×20	0.021	1,870	EKZG160E□□102MH20D
	1,000	10×16	0.019	2,000	EKZG160E□□102MJ16S
	1,500	10×20	0.013	2,550	EKZG160E□□152MJ20S
	1,800	10×25	0.012	2,800	EKZG160E□□182MJ25S

□□ : Lead forming / Taping code

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance(μF)	Frequency (Hz)	120	1k	10k	100k
470	0.50	0.85	0.94	1.00	
680 to 1,800	0.60	0.87	0.95	1.00	
2,200 to 3,300	0.75	0.90	0.95	1.00	

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