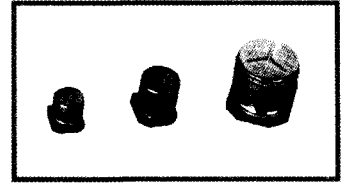


V-CHIP ALUMINUM ELECTROLYTIC CAPACITORS 片式铝电解电容器

KZ Extra Lower Impedance Series

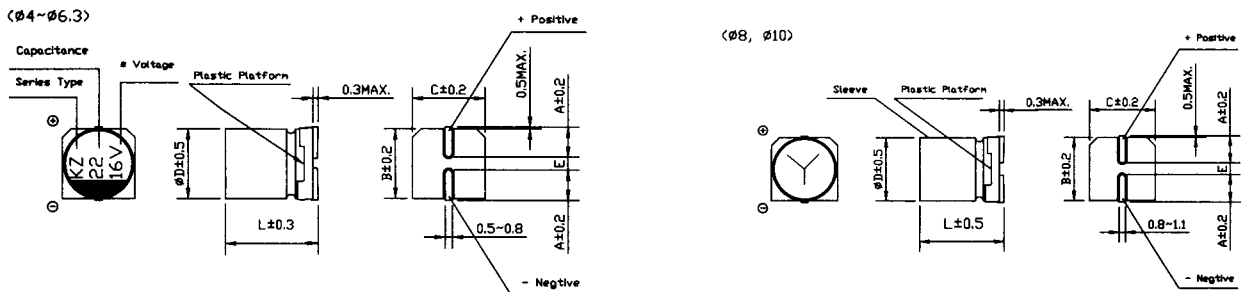
- Chip type, Extra low impedance, temperature range up to +105°C.
- Designed for surface mounting on high density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.



◆ Specifications

Items	Performance Characteristics																							
Operating Temperature Range	-55~+105°C																							
Voltage Range	6.3-50V																							
Capacitance Range	1~1000μF																							
Capacitance Tolerance	±20% at 120Hz, 20°C																							
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3μA, whichever is greater.																							
Tan δ	Measurement frequency: 120Hz, Temperature: 20°C () is Φ 8 over <table border="1"> <tr> <td>Rated voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tan δ (max)</td> <td>0.22(0.28)</td> <td>0.20(0.24)</td> <td>0.16(0.20)</td> <td>0.14(0.16)</td> <td>0.12(0.14)</td> <td>0.10(0.12)</td> </tr> </table>	Rated voltage(V)	6.3	10	16	25	35	50	Tan δ (max)	0.22(0.28)	0.20(0.24)	0.16(0.20)	0.14(0.16)	0.12(0.14)	0.10(0.12)									
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Tan δ (max)	0.22(0.28)	0.20(0.24)	0.16(0.20)	0.14(0.16)	0.12(0.14)	0.10(0.12)																		
Stability at Low Temperature	Measurement frequency: 120Hz <table border="1"> <tr> <td colspan="2">Rated voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td rowspan="2">Impedance ratio</td> <td>Z-25°C/Z+20°C</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ZT/Z20(max)</td> <td>5</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated voltage(V)		6.3	10	16	25	35	50	Impedance ratio	Z-25°C/Z+20°C	3	2	2	2	2	2	ZT/Z20(max)	5	4	4	3	3	3
Rated voltage(V)		6.3	10	16	25	35	50																	
Impedance ratio	Z-25°C/Z+20°C	3	2	2	2	2	2																	
	ZT/Z20(max)	5	4	4	3	3	3																	
Load Life	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristics requirements listed at right <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ± 25% of initial value</td> </tr> <tr> <td>Tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance Change	Within ± 25% of initial value	Tan δ	200% or less of initial specified value	Leakage Current	Initial specified value or less																	
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Tan δ	200% or less of initial specified value																							
Leakage Current	Initial specified value or less																							
Self Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.																							
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristics requirements listed at right. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ± 10% of initial value</td> </tr> <tr> <td>Tan δ</td> <td>Initial specified value or less</td> </tr> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance Change	Within ± 10% of initial value	Tan δ	Initial specified value or less	Leakage Current	Initial specified value or less																	
Capacitance Change	Within ± 10% of initial value																							
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Leakage Current	Initial specified value or less																							
Applicable Standards	JIS C-5141 and JIS C-5102																							

◆ Chip Type



* Voltage mark for 6.3V is [6V]

	(mm)					
ΦD×L	4×5.8	5×5.8	6.3×5.8	6.3×7.7	8×10.5	10×10.5
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.8	5.8	5.8	7.7	10.5	10.5

V-CHIP ALUMINUM ELECTROLYTIC CAPACITORS 片式铝电解电容器

KZ Series

• Dimensions

Cap (μF) \ WV		6.3			10			16		
		0J			1A			1C		
15	150							4×5.8	1.8	80
22	220				4×5.8	1.8	80	5×5.8	0.76	150
27	270	4×5.8	1.8	80	5×5.8	0.76	150	5×5.8	0.76	150
33	330	5×5.8	0.76	150	5×5.8	0.76	150	6.3×5.8	0.44	230
47	470	5×5.8	0.76	150	6.3×5.8	0.44	230	6.3×5.8	0.44	230
56	560	5×5.8	0.76	150	6.3×5.8	0.44	230	6.3×5.8	0.44	230
68	680	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.34	280
100	101	6.3×5.8	0.44	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280
150	151	6.3×5.8	0.44	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280
220	221	6.3×7.7	0.34	280	6.3×7.7	0.34	280	8×10.5	0.17	450
330	331	6.3×7.7	0.34	280	8×10.5	0.17	450	8×10.5	0.17	450
470	471	8×10.5	0.17	450	8×10.5	0.17	450	10×10.5	0.09	670
680	681	10×10.5	0.09	670	10×10.5	0.09	670	10×10.5	0.09	670
1000	102	10×10.5	0.09	670	10×10.5	0.09	670			

Cap. (μF) \ WV		25			35			50		
		1E			1V			1H		
1	010							4×5.8	5.00	30
1.5	1R5							4×5.8	5.00	30
2.2	2R2							4×5.8	5.00	30
3.3	3R3							4×5.8	5.00	30
4.7	4R7				4×5.8	1.8	80	5×5.8	1.52	40
10	100	4×5.8	1.8	80	5×5.8	0.76	150	6.3×5.8	0.88	120
15	150	5×5.8	0.76	150	5×5.8	0.76	150	6.3×5.8	0.88	120
22	220	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.68	140
27	270	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.68	140
33	330	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.68	140
47	470	6.3×7.7	0.34	280	6.3×7.7	0.34	280	6.3×7.7	0.68	140
56	560	6.3×7.7	0.34	280	6.3×7.7	0.34	280	8×10.5	0.34	230
68	680	6.3×7.7	0.34	280	6.3×7.7	0.34	280	8×10.5	0.34	230
100	101	6.3×7.7	0.34	280	8×10.5	0.17	450	10×10.5	0.18	340
150	151	8×10.5	0.17	450	10×10.5	0.09	670	10×10.5	0.18	340
220	221	8×10.5	0.17	450	10×10.5	0.09	670			
330	331	10×10.5	0.09	670				Case size	Impedance	Allowable ripple

Max. impedance (Ω) at 20°C 100kHz, allowable ripple (mA rms) at 105°C 100kHz

• Frequency coefficient of allowable ripple current

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz~
Coefficient	0.35	0.50	0.64	0.83	1.00