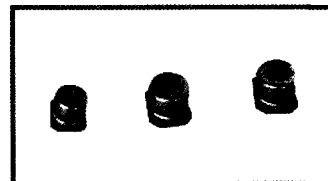


V-CHIP ALUMINUM ELECTROLYTIC CAPACITORS 片式铝电解电容器

LZ Low Impedance Series

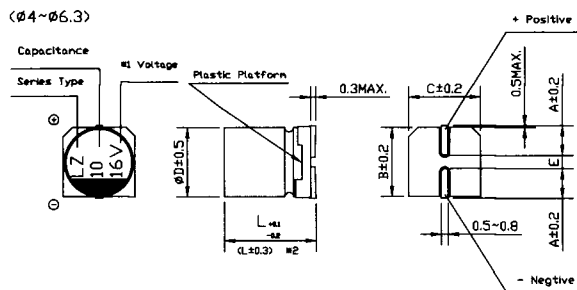


- Chip type, low impedance, temperature range up to +105°C.
- Designed for surface mounting on high density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.

◆ Specifications

Items	Performance Characteristics																				
Operating Temperature Range	-55~+105°C																				
Voltage Range	6.3~35V																				
Capacitance Range	1~220μF																				
Capacitance Tolerance	±20% at 120 Hz, 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 <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> </tr> <tr> <td>Tan δ (max)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table>	Rated voltage(V)	6.3	10	16	25	35	Tan δ (max)	0.22	0.19	0.16	0.14	0.12								
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Tan δ (max)	0.22	0.19	0.16	0.14	0.12																
Stability at Low Temperature	Measurement frequency: 120Hz <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> </tr> <tr> <td>Impedance ratio</td> <td>Z-25°C/Z+20°C</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ZT/Z20(max)</td> <td>Z-40°C/Z+20°C</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	Impedance ratio	Z-25°C/Z+20°C	2	2	2	2	2	ZT/Z20(max)	Z-40°C/Z+20°C	4	4	3	3	3
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ZT/Z20(max)	Z-40°C/Z+20°C	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 ± 20% 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 ± 20% of initial value	Tan δ	200% or less of initial specified value	Leakage Current	Initial specified value or less														
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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														
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Applicable Standards	JIS C-5141 and JIS C-5102																				

◆ Chip Type



	(mm)			
ΦD × L	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E	1.0	1.3	2.2	2.2
L	5.4	5.4	5.4	7.7

*1 Voltage mark for 6.3V is [6V]

*2 Applicable to 6.3×7.7

LZ Series
• Dimensions

Cap. (μ F)	WV	6.3			10			16			25			35		
		0J			1A			1C			1E			1V		
1.0	010													4×5.4	5.0	50
1.5	1R5													4×5.4	5.0	50
2.2	2R2													4×5.4	5.0	50
3.3	3R3													4×5.4	5.0	50
4.7	4R7										4×5.4	5.0	50	4×5.4	5.0	50
6.8	6R8										4×5.4	5.0	50	5×5.4	2.6	80
10	100							4×5.4	5.0	50	5×5.4	2.6	80	5×5.4	2.6	80
15	150							5×5.4	2.6	80	6.3×5.4	1.3	115	6.3×5.4	1.3	115
22	220	4×5.4	5.0	50	5×5.4	2.6	80	5×5.4	2.6	80	6.3×5.4	1.3	115	6.3×5.4	1.3	115
33	330	5×5.4	2.6	80	5×5.4	2.6	80	6.3×5.4	1.3	115	6.3×5.4	1.3	115	6.3×7.7	0.8	150
47	470	5×5.4	2.6	80	6.3×5.4	1.3	115	6.3×5.4	1.3	115	6.3×7.7	0.8	150	6.3×7.7	0.8	150
68	680	6.3×5.4	1.3	115	6.3×5.4	1.3	115	6.3×7.7	0.8	150	6.3×7.7	0.8	150			
100	101	6.3×5.4	1.3	115	6.3×7.7	0.8	150	6.3×7.7	0.8	150						
150	151	6.3×7.7	0.8	150	6.3×7.7	0.8	150									
220	221	6.3×7.7	0.8	150										Case size	Impedance	Allowable ripple

 Maximum 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