

Aluminum Electrolytic Capacitor Series

KLS10 - CD110X (SX) (7mm) Series

7mm Super Miniature

Super miniature size, light weight, good stable and reliable performance, good uniformity.

Widely used in electronic equipment of thin and high density assemblies, such as recorders, cameras, computers and telecommunications.



Item	Characteristics																
Size and its tolerance 	<table border="1"> <tr> <td>∅D</td> <td>4</td> <td>5</td> <td>6</td> <td>8</td> </tr> <tr> <td>F ± 0.5</td> <td>1.5</td> <td>2.0</td> <td>2.5</td> <td>3.5</td> </tr> <tr> <td>d ± 0.1</td> <td colspan="2">0.45</td> <td colspan="2">0.5</td> </tr> </table>	∅D	4	5	6	8	F ± 0.5	1.5	2.0	2.5	3.5	d ± 0.1	0.45		0.5		
	∅D	4	5	6	8												
	F ± 0.5	1.5	2.0	2.5	3.5												
d ± 0.1	0.45		0.5														
Operating Temp. Range	-40°C ~ +105°C																
Rated Working Voltage	6.3 ~ 63VDC																
Capacitance Range	0.1 ~ 470 μF (+20°C, 100 or 120Hz)																
Capacitance Tol.	±20%, +30%, -10% (+20°C, 100 or 120Hz)																
Dissipation Factor tg δ	At +20°C, 100 or 120Hz <table border="1"> <tr> <td>U_R (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tg δ</td> <td>0.22</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	63	tg δ	0.22	0.20	0.16	0.14	0.12	0.10	0.10
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tg δ	0.22	0.20	0.16	0.14	0.12	0.10	0.10										
Leakage Current I _L	A grade ≤ 0.01·C _R ·U _R or 3 μA whichever is greater At +20°C after 2 minutes application of U _R .																
Load Life	At +85°C after U _R applied for 1000 hours . <table border="1"> <tr> <td>ΔC</td> <td>±20% of initial measured value</td> </tr> <tr> <td>DF(tg δ)</td> <td>≤200% of initial specified value</td> </tr> <tr> <td>LC(I_L)</td> <td>≤ initial specified value</td> </tr> </table>	ΔC	±20% of initial measured value	DF(tg δ)	≤200% of initial specified value	LC(I _L)	≤ initial specified value										
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Shelf Life	At +85°C, after shelf for 500 hours (without voltage applied) and then restored for 16 hours at room temp. <table border="1"> <tr> <td>ΔC</td> <td>±20% of initial measured value</td> </tr> <tr> <td>DF(tg δ)</td> <td>≤200% of initial specified value</td> </tr> <tr> <td>LC(I_L)</td> <td>≤200% of initial specified value</td> </tr> </table>	ΔC	±20% of initial measured value	DF(tg δ)	≤200% of initial specified value	LC(I _L)	≤200% of initial specified value										
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Case Size of Standard Products

U _R (V) C _R (μF)	6.3	10	16	25	35	50	63
0.1~3.3						4×7	4×7
4.7					4×7	4×7	5×7
6.8					4×7	4×7	5×7
10			4×7	4×7	4×7	5×7	6×7
22			4×7	4×7	5×7	6×7	8×9
33		4×7	5×7	5×7	6×7	8×9	
47		4×7	5×7	6×7	6×7		
68		5×7	6×7	8×9	8×9		
100	5×7	5×7	6×7	8×9	8×9		
220	6×7	6×7	8×9				
330	8×9	8×9					
470	8×9						

Note: We can also provide the capacitors according to the customer's request.