

## Aluminum Electrolytic Capacitor Series

### KLS10 - CD110 (PT) Series

Color TV Standard

Better stable and reliable performance, good uniformity.

$D \geq 8\text{mm}$  equipped with pressure release device.

Be used widely in DC or pulse circuit of color TV, color tubes, telecommunications and computers.



Item	Characteristics																															
Size and its tolerance 	$\varnothing D$	5	6	8	10	12	13	16	18																							
	$F \pm 0.5$	2.0	2.5	3.5	5.0			7.5																								
	$d \pm 0.1$	0.5			0.6			0.8																								
Operating Temp. Range	-40°C ~ +85°C ( $\leq 100\text{VDC}$ )					-25°C ~ +85°C (160、250VDC)																										
Rated Working Voltage	6.3 ~ 250VDC																															
Capacitance Range	0.1 ~ 10000 $\mu\text{F}$ (+20°C, 100 or 120Hz)																															
Capacitance Tol.	$\pm 20\%$ , $^{+30}_{-10}\%$ (+20°C, 100 or 120Hz)																															
Dissipation Factor $\text{tg } \delta$	At +20°C and 100 or 120Hz, for $C_R > 1000 \mu\text{F}$ , $\text{tg } \delta$ add 0.02 per another 1000 $\mu\text{F}$ .																															
	<table border="1"> <tr> <td><math>U_R(\text{V})</math></td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160</td> <td>250</td> </tr> <tr> <td><math>\text{tg } \delta</math></td> <td>0.24</td> <td>0.22</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.16</td> <td>0.18</td> </tr> </table>	$U_R(\text{V})$	6.3	10	16	25	35	50	63	100	160	250	$\text{tg } \delta$	0.24	0.22	0.16	0.14	0.12	0.10	0.09	0.08	0.16	0.18									
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$\text{tg } \delta$	0.24	0.22	0.16	0.14	0.12	0.10	0.09	0.08	0.16	0.18																						
Leakage Current $I_L$	$\leq 0.01 \cdot C_R \cdot U_R$ or $3 \mu\text{A}$ ( $U_R \leq 100\text{VDC}$ ) whichever is greater $\leq 0.03 \cdot C_R \cdot U_R + 10 \mu\text{A}$ ( $U_R \geq 160\text{VDC}$ ) At +20°C, after 2 minutes application of $U_R$																															
Load Life	At +85°C after $U_R$ applied for 1000 hours.																															
	$\Delta C$	$^{+20}_{-30}\%$ (6.3VDC), $\pm 20\%$ (10-100VDC), $\pm 15\%$ ( $\geq 160\text{VDC}$ ) of initial measured value																														
	$\text{DF}(\text{tg } \delta)$	$\leq 150\%$ of initial specified value																														
Shelf Life	At +85°C, after shelf for 500 hours (without voltage applied), then restored for 16 hours at room temp.																															
	$\Delta C$	$\pm 20\%$ of initial measured value																														
	$\text{DF}(\text{tg } \delta)$	$\leq 150\%$ of initial specified value																														
Others	$\text{LC}(I_L)$																															
	$\leq 200\%$ of initial specified value																															
Others	GB9608-88																															

### Case Size of Standard Products

$U_R(\text{V})$ $C_R$ ( $\mu\text{F}$ )	6.3	10	16	25	35	50	63	100	160	250
0.1~0.68						5×11	5×11	5×11		
1.0,1.5						5×11	5×11	5×11	5×11	6×12
2.2						5×11	5×11	5×11	6×12	8×12
3.3						5×11	5×11	5×11	8×12	8×12
4.7				5×11		5×11	5×11	6×11	8×12	8×14
6.8				5×11		5×11	5×11	6×11	10×15	10×15
10			5×11	5×11	5×11	5×11	5×11	6×12	10×15	10×15
15			5×11	5×11	5×11	6×11	6×11	8×12	10×15	10×20
22		5×11	5×11	5×11	5×11	6×11	6×12	8×14	10×17	13×20
33	5×11	5×11	5×11	5×11	5×11	6×12	8×12	10×15	12×20	13×25
47	5×11	5×11	5×11	5×11	6×12	8×11	8×12	10×17	13×20	16×26
68	5×11	5×11	6×11	6×12	6×12	8×12	10×13	10×20	13×25	16×32

$U_R(\text{V})$ $C_R$ ( $\mu\text{F}$ )	6.3	10	16	25	35	50	63	100	160	250	
100	5×11	6×11	6×12	8×12	8×12	8×12	8×12	10×15	10×22	13×26	16×30
150	5×11	6×12	6×12	8×12	8×12	8×12	10×17	10×20	13×21	16×32	
220	5×12	6×12	8×12	8×12	8×14	10×17	12×20	13×25	16×36		
330	6×12	8×12	8×12	8×14	10×15	10×20	13×20	16×32			
470	8×12	8×12	8×14	10×15	10×17	12×20	16×26	16×36			
680	8×14	10×15	10×15	10×17	12×20	16×25	16×26				
1000	8×14	10×15	10×17	10×20	13×20	16×26	16×35				
1500	10×15	10×20	13×20	13×20	16×25	18×32					
2200	10×20	10×20	13×21	13×26	16×27	18×36					
3300	13×20	13×20	13×21	16×32	16×36	18×38					
4700	13×25	13×25	16×25	16×34	18×36	22×42					
6800	16×26	16×26									
10000	16×32										

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