

CAPACITOR

Aluminum Electrolytic Capacitor Series

KLS10 - CD117 (SH) Series

High Precision Stability

Extremely low dissipation factor, high stability.
used in TV gathering focus, oscillation frequency and timer circuits.



Item	Characteristics																			
Size and its tolerance 	ØD	6	8	10	13	16	18													
	F ± 0.5	2.5	3.5	5.0		7.5														
	d ± 0.1	0.5		0.6		0.8														
Operating Temp. Range	-40°C ~ +85°C																			
Rated Working Voltage	10V ~ 50Vdc																			
Capacitance Range	0.47 μF ~ 470 μF																			
Capacitance Tol.	± 10%, (100Hz, 20°C)																			
Dissipation Factor tg δ	+20°C, 100 or 120Hz.	<table border="1"> <tr> <td>U_R (V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tg δ</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> <td>0.07</td> <td>0.07</td> </tr> </table>					U _R (V)	10	16	25	35	50	tg δ	0.10	0.08	0.08	0.07	0.07		
		U _R (V)	10	16	25	35	50													
tg δ	0.10	0.08	0.08	0.07	0.07															
Leakage Current I _L	≤ 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 .																			
	ΔC	± 10% of initial measured value																		
	DF(tg δ)	≤ 150% of initial specified value																		
	LC(I _L)	≤ initial specified value																		
Shelf Life	At +85°C, after shelf for 500 hours (without voltage applied), then restored for 16 hours at room temp.																			
	ΔC	± 10% of initial measured value																		
	DF(tg δ)	≤ 150% of initial specified value																		
	LC(I _L)	≤ 200% of initial specified value																		

Case Size of Standard Products

C _R (μF) \ U _R (V)	10	16	25	35	50
0.47					6 × 12
1.0				6 × 12	6 × 12
2.2			6 × 12	6 × 12	6 × 12
3.3		6 × 12	6 × 12	6 × 12	6 × 12
4.7	6 × 12	6 × 12	6 × 12	8 × 12	8 × 12
10	6 × 12	8 × 12	10 × 13	10 × 13	10 × 16
22	8 × 12	10 × 13	10 × 16	10 × 20	10 × 20
33	10 × 13	10 × 16	10 × 20	13 × 20	13 × 20
47	10 × 16	10 × 20	13 × 20	13 × 25	13 × 25
100	10 × 20	13 × 20	13 × 25	16 × 25	16 × 25
220	13 × 20	13 × 25	16 × 25	16 × 32	16 × 36
330	16 × 25	16 × 25	16 × 32		
470	16 × 36	16 × 36			

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