

CAPACITOR

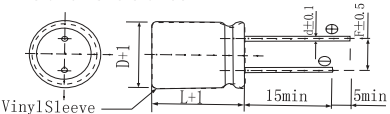
Aluminum Electrolytic Capacitor Series

KLS10 - CD11W (LM) (5mm) Series

5mm Super Miniature

Ultra miniature series with 5mm height.
Used in camera, auto speaker, personal stereo, VCD, DVD, mobile telephone, recrudescence, etc.



Item	Characteristics																															
Size and its tolerance  Vinyl Sleeve	Ø D	4		5		6.3		8																								
	F	1.5		2.0		2.5		2.5																								
	Ø d	0.45		0.45		0.45		0.45																								
Operating Temp. Range	-40℃ ~ +105℃																															
Rated Working Voltage	4 ~ 50V _{DC}																															
Capacitance Tol.	±20%,(M)at 120Hz 20℃																															
Leakage Current max.	I = 0.01CV or 3 μ A whichever is greater after 2 minutes.																															
	I:Leakage Current(μ A) C:Rated Capacitance(μ F) V:Working Voltage(V)																															
Dissipation Factor max. (at 120Hz,20℃)	<table><tr><td>WV</td><td>4</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</td><td>0.35</td><td>0.27</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table>								WV	4	6.3	10	16	25	35	50	tan δ	0.35	0.27	0.20	0.16	0.14	0.12	0.10								
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Low Temperature Stability (Impedance ratio at 120Hz)	<table><tr><td>WV</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td colspan="3">25-50</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>7</td><td>3</td><td>3</td><td>2</td><td colspan="3">2</td></tr><tr><td>Z(-40℃)/Z(+20℃)</td><td>12</td><td>8</td><td>5</td><td>4</td><td colspan="3">3</td></tr></table>								WV	4	6.3	10	16	25-50			Z(-25℃)/Z(+20℃)	7	3	3	2	2			Z(-40℃)/Z(+20℃)	12	8	5	4	3		
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Load Life	After 1000 hours application for W V. at 105℃ the capacitor shall meet the following limits.																															
	ΔC		±20% of initial measured value(±30% 4V)																													
	DF(tg δ)		≤200% of initial specified value																													
	LC(I _L)		≤200% of initial specified value																													
Shelf Life(105℃)	After 1000 hours of no load test leakage current capacitance and tan δ are same as load life value.																															
Reference Standard	JIS C-5141																															

Case Size of Standard Products

WV μF	4		6.3		10		16		25		35		50	
	SIZE	R C	SIZE	R C	SIZE	R C	SIZE	R C	SIZE	R C	SIZE	R C	SIZE	R C
0.1													4×5	1.6
0.22													4×5	2.4
0.33													4×5	3.2
0.47													4×5	4
0.68													4×5	5.6
1.0													4×5	5.6
2.2													4×5	10
3.3											4×5	11	4×5	12
4.7									4×5	12	4×5	13	5×5	15
6.3									4×5	15	5×5	17	5×5	20
10			4×5	12	4×5	13	4×5	16	5×5	19	5×5	22	6.3×5	26
22	4×5	16	4×5	16	5×5	22	5×5	29	6.3×5	34	6.3×5	36		
33	4×5	20	5×5	23	5×5	29	6.3×5	37	6.3×5	45				
47	4×5	24	5×5	28	6.3×5	35	6.3×5	46						
68	5×5	36	6.3×5	46	6.3×5	47	6.3×5	52						
100	5×5	41	6.3×5	50	6.3×5	52	6.3×5	58						
220	6.3×5	56	8×5	60										
330	8×5	150	8×5	175										

Ripple current (mArms) at 105℃,
120Hz Case size D×L (mm)

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