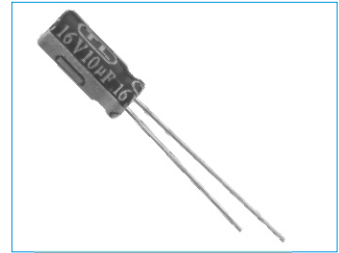


CD81C Series

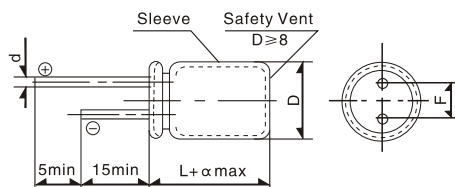
- Superminiature, high CV value, wide temperature, suited for use in electronic circuit of high density assembly of videocorder, remote controller VCD etc
- Load life of 1000 hours at 105°C
- Specifications



CD11C $\xrightarrow{\text{Wide temp.}}$ CD81C

Item	Characteristics																				
Operating Temperature Range	-40°C ~ +105°C																				
Rated Voltage Range	6.3V~63V																				
Nominal Capacitance Range	0.1 μ F~220 μ F																				
Capacitance Tolerance	M (± 20%) (20°C, 120Hz)																				
Leakage Current	$I \leq 0.01 C_R U_R$ or 3(μ A), whichever is greater. C _R : Nominal capacitance (μ F) U _R : Rated voltage(V) (20°C, after 2 minutes)																				
Dissipation Factor (Max)	<table border="1"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> </tr> </tbody> </table> <p>(20°C, 120Hz)</p>	U _R (V)	6.3	10	16	25	35	50	63	tan δ	0.24	0.20	0.16	0.14	0.12	0.10	0.08				
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Low Temperature Stability (Impedance Ratio)	<table border="1"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10~16</th> <th>25~63</th> </tr> </thead> <tbody> <tr> <td>Z(-40°C) / Z(+20°C)</td> <td>7</td> <td>5</td> <td>4</td> </tr> </tbody> </table> <p>(120Hz)</p>	U _R (V)	6.3	10~16	25~63	Z(-40°C) / Z(+20°C)	7	5	4												
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Load Life	<p>After 1000 hours' application of rated voltage with rated ripple current at 105°C, the capacitors shall meet the following requirement:</p> <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>Within ± 20% of the initial value .</td> </tr> <tr> <td>Dissipation factor</td> <td>Not more than 200% of the initial specified value.</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the initial specified value.</td> </tr> </tbody> </table>	Capacitance change	Within ± 20% of the initial value .	Dissipation factor	Not more than 200% of the initial specified value.	Leakage current	Not more than the initial specified value.														
Capacitance change	Within ± 20% of the initial value .																				
Dissipation factor	Not more than 200% of the initial specified value.																				
Leakage current	Not more than the initial specified value.																				
Shelf Life	After storage for 500 hours at +105°C, the capacitor shall meet the requirement of load life above .																				
Rated Ripple Current & Frequency Multipliers	<table border="1"> <thead> <tr> <th>U_R (V) \ Freq.</th> <th>50Hz</th> <th>120Hz</th> <th>1kHz</th> <th>10kHz~</th> </tr> </thead> <tbody> <tr> <td>6.3~16</td> <td>0.68</td> <td>1.0</td> <td>1.28</td> <td>1.38</td> </tr> <tr> <td>25~35</td> <td>0.48</td> <td>1.0</td> <td>1.27</td> <td>1.59</td> </tr> <tr> <td>50~63</td> <td>0.45</td> <td>1.0</td> <td>1.4</td> <td>2.0</td> </tr> </tbody> </table>	U _R (V) \ Freq.	50Hz	120Hz	1kHz	10kHz~	6.3~16	0.68	1.0	1.28	1.38	25~35	0.48	1.0	1.27	1.59	50~63	0.45	1.0	1.4	2.0
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Rated Ripple Current & Temperature Multipliers	<table border="1"> <thead> <tr> <th>Temperature</th> <th>+50°C</th> <th>+70°C</th> <th>+85°C</th> <th>+105°C</th> </tr> </thead> <tbody> <tr> <td>Multipliers</td> <td>2.10</td> <td>1.78</td> <td>1.40</td> <td>1.00</td> </tr> </tbody> </table>	Temperature	+50°C	+70°C	+85°C	+105°C	Multipliers	2.10	1.78	1.40	1.00										
Temperature	+50°C	+70°C	+85°C	+105°C																	
Multipliers	2.10	1.78	1.40	1.00																	

■ Dimensions



	mm			
D	4	5	6.3	8
L	7	7	7	7
F ± 0.5	1.5	2.0	2.5	3.5
D ± 0.1	0.45			0.5
α	10			1.5

CD81C Series

■ Nominal capacitance, rated voltage, rated ripple current and case size table

UR(V) Item CR(μF)	6.3		10		16		25		35		50		63			
	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~		
0.1											4×7	1.0	4×7	1.3		
0.15											4×7	1.2	4×7	1.5		
0.22											4×7	2.3	4×7	2.5		
0.33											4×7	4.7	4×7	5.0		
0.47											4×7	5.0	4×7	5.5		
0.68											4×7	8.2	4×7	9		
1.0									4×7	11	4×7	10	4×7	11		
1.5									4×7	13	4×7	12	4×7	14		
2.2									4×7	16	4×7	19	4×7	20		
3.3							4×7	16	4×7	20	4×7	24	5×7	25		
4.7					4×7	20	4×7	19	4×7	24	5×7	29	6.3×7	32		
6.8					4×7	24	5×7	25	4×7	29	6.3×7	36				
10					4×7	29	5×7	33	5×7	36	6.3×7	44				
15			4×7	28	4×7	35	6.3×7	42	6.3×7	47						
22	4×7	34	5×7	38	5×7	44	6.3×7	51	6.3×7	57						
33	5×7	42	5×7	47	6.3×7	57	6.3×7	63	6.3×7	72						
47	5×7	50	6.3×7	59	6.3×7	68	6.3×7	78								
68	6.3×7	70	6.3×7	77	6.3×7	81	8×7	92								
100	6.3×7	77	6.3×7	96	8×7	117	8×7	111								
220	8×7	130	8×7	155	8×7	173	↑ Rated ripple current (mA rms) (105°C, 120Hz)									