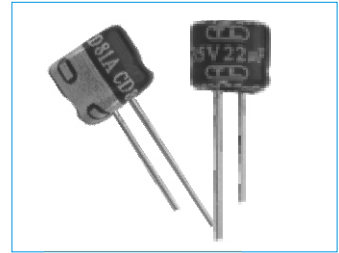


CD81A Series

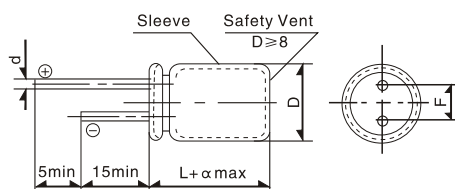
- Superminiature, high CV value, wide temperature, suited for use in electronic circuit of high density assembly of videocorder, remote controller VCD etc
- Load life of 1000 hours at 105°C
- Specifications

CD81C $\xrightarrow{\text{Wide temp.}}$ CD81A



Item	Characteristics																					
Operating Temperature Range	-40°C ~ +105°C																					
Rated Voltage Range	6.3V~50V																					
Nominal Capacitance Range	0.1 μ F~100 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> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table> (20°C, 120Hz)	U _R (V)	6.3	10	16	25	35	50	tan δ	0.28	0.24	0.20	0.14	0.12	0.10							
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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</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C) / Z(+20°C)</td> <td colspan="2">3</td> <td colspan="4">2</td> </tr> <tr> <td>Z(-40°C) / Z(+20°C)</td> <td>8</td> <td>5</td> <td>4</td> <td colspan="3">3</td> </tr> </tbody> </table> (120Hz)	U _R (V)	6.3	10	16	25	35	50	Z(-25°C) / Z(+20°C)	3		2				Z(-40°C) / Z(+20°C)	8	5	4	3		
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Load Life	<p>After 1000 hours' application of rated voltage at 105°C, the capacitors shall meet the following requirement:</p> <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>Within ± 25% 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 ± 25% of the initial value .	Dissipation factor	Not more than 200% of the initial specified value.	Leakage current	Not more than the initial specified value.															
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Shelf Life	After storage for 500 hours at +105°C, the capacitors 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~100kHz</th> </tr> </thead> <tbody> <tr> <td>6.3~16</td> <td>0.64</td> <td>0.80</td> <td>0.92</td> <td>1.0</td> </tr> <tr> <td>25~35</td> <td>0.57</td> <td>0.71</td> <td>0.89</td> <td>1.0</td> </tr> <tr> <td>50</td> <td>0.53</td> <td>0.67</td> <td>0.90</td> <td>1.0</td> </tr> </tbody> </table>	U _R (V) \ Freq.	50Hz	120Hz	1kHz	10kHz~100kHz	6.3~16	0.64	0.80	0.92	1.0	25~35	0.57	0.71	0.89	1.0	50	0.53	0.67	0.90	1.0	
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Dimensions



	mm			
D ± 0.5	4	5	6.3	8
d ± 0.05	0.45	0.45	0.45	0.45
F ± 0.5	1.5	2.0	2.5	2.5
α	1.0			

CD81A Series

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

UR(V) Item CR(μF)	6.3		10		16		25		35		50	
	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~
0.10											4×5	3
0.22											4×5	5
0.33											4×5	6
0.47											4×5	8
1.0											4×5	11
2.2											4×5	17
3.3									4×5	17	4×5	20
4.7					4×5	15	4×5	18	4×5	20	5×5	27
10			4×5	20	4×5	23	5×5	31	5×5	34	6.3×5	45
22	4×5	26	5×5	34	5×5	38	6.3×5	53	6.3×5	57		
33	5×5	33	5×5	43	6.3×5	56	6.3×5	66				
47	5×5	45	6.3×5	58	6.3×5	65						
100	6.3×5	78	↑ _____ Rated ripple current (mA rms) (105°C, 100kHz)									