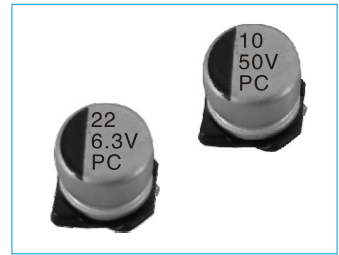


Chip Type Aluminum Electrolytic Capacitors

PC Chip Type Series



- Case diameter: $\Phi 4\text{mm} \sim \Phi 6.3\text{mm}$
- Chip type, low leakage current temperature range up to 85°C .
- Designed for surface mounting on high density PC board.
- Applicable to automatic insertion machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC)

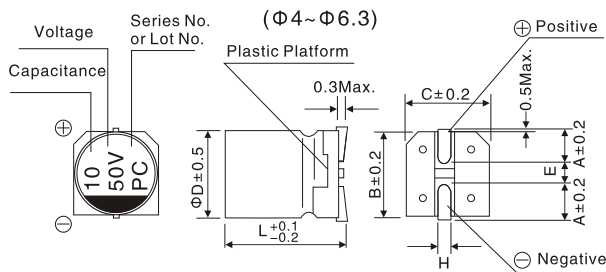
Specifications

Item	Characteristics																					
Operating Temperature Range	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$																					
Rated Voltage Range	6.3V ~ 50V																					
Nominal Capacitance Range	$0.1 \mu\text{F} \sim 100 \mu\text{F}$																					
Capacitance Tolerance	M ($\pm 20\%$) (20°C, 120Hz)																					
Leakage Current	$I \leq 0.002CV$ or $0.5(\mu\text{A})$, whichever is greater. C: Nominal capacitance (μF) V: Rated voltage (V) (20°C, after 2 minutes)																					
Dissipation Factor (Max)	<table border="1"> <thead> <tr> <th>WV</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>$\tan \delta$</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> </tr> </tbody> </table> <p>(20°C, 120Hz)</p>	WV	6.3	10	16	25	35	50	$\tan \delta$	0.26	0.20	0.16	0.14	0.12	0.12							
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Low Temperature Stability (Impedance Ratio)	<table border="1"> <thead> <tr> <th>WV</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>$Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C})$</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>$Z(-40^{\circ}\text{C})/Z(+20^{\circ}\text{C})$</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>(120Hz)</p>	WV	6.3	10	16	25	35	50	$Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C})$	4	3	2	2	2	2	$Z(-40^{\circ}\text{C})/Z(+20^{\circ}\text{C})$	8	6	4	4	3	3
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Load Life	<p>After 2000 hours' application of rated voltage at 85°C, the capacitors shall meet the following requirement:</p> <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>Within $\pm 25\%$ 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 $\pm 25\%$ 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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Rated Ripple Current & Frequency Multipliers	<table border="1"> <thead> <tr> <th>Frequency</th> <th>50Hz</th> <th>120Hz</th> <th>300Hz</th> <th>1kHz</th> <th>$\geq 10\text{kHz}$</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>0.70</td> <td>1.00</td> <td>1.17</td> <td>1.36</td> <td>1.50</td> </tr> </tbody> </table>	Frequency	50Hz	120Hz	300Hz	1kHz	$\geq 10\text{kHz}$	Multiplier	0.70	1.00	1.17	1.36	1.50									
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■ Dimensions



	(mm)		
	4 × 5.4	5 × 5.4	6.3 × 5.4
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2
L	5.4	5.4	5.4
H	0.5~0.8		

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

WV Item μ F	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 _~
0.1											4 × 5.4	1.0
0.22											4 × 5.4	2.3
0.33											4 × 5.4	3.5
0.47											4 × 5.4	5
1.0											4 × 5.4	10
2.2											4 × 5.4	15
3.3											4 × 5.4	18
47							4 × 5.4	19	4 × 5.4	20	5 × 5.4	23
10					4 × 5.4	25	5 × 5.4	28	5 × 5.4	30	6.3 × 5.4	34
22	4 × 5.4	31	5 × 5.4	35	5 × 5.4	39	6.3 × 5.4	52	6.3 × 5.4	54		
33	5 × 5.4	39	5 × 5.4	43	6.3 × 5.4	57	6.3 × 5.4	63				
47	5 × 5.4	47	6.3 × 5.4	59	6.3 × 5.4	68						
100	5 × 5.4	71	6.3 × 5.4	76	↑ Rated ripple current (mA rms) (85°C, 120Hz)							