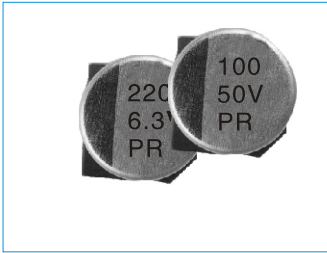


Chip Type Aluminum Electrolytic Capacitors

PR Chip Type Series



- Low impedance
- Corresponding with 260°C peak reflow soldering
- Available for high density surface mounting
- Operating over wide temperature range(-55°C~+105°C).
- Adapted to the RoHS directive (2002/95/EC).

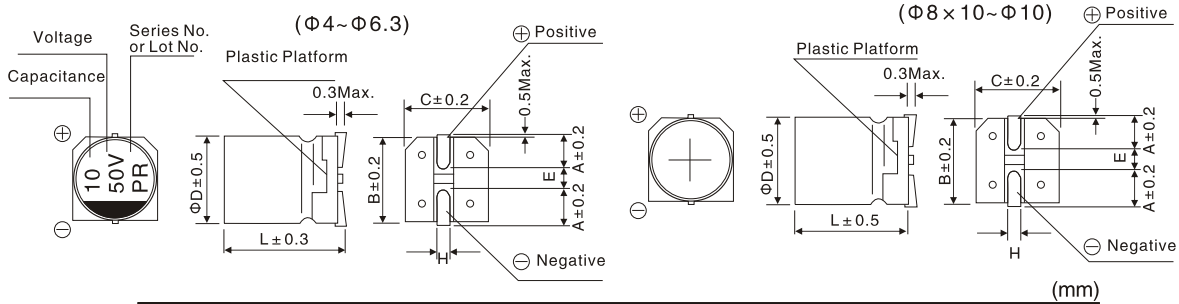
Specifications

Item	Characteristics																					
Operating Temperature Range	-55°C~+105°C																					
Rated Voltage Range	6.3V ~ 50V																					
Nominal Capacitance Range	1.0 μ F ~ 1500 μ F																					
Capacitance Tolerance	M (± 20%) (20°C, 120Hz)																					
Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$, whichever is greater. C:Nominal capacitance (μ F) 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 δ</td> <td>0.26</td> <td>0.19</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 δ	0.26	0.19	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°C)/Z(+20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>(120Hz)</p>	WV	6.3	10	16	25	35	50	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2	Z(-40°C)/Z(+20°C)	4	4	3	3	3	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 ± 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.															
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Shelf Life	After storage for 1000 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>Frequency</th> <th>50Hz</th> <th>120Hz</th> <th>300Hz</th> <th>1kHz</th> <th>≥10kHz</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>0.35</td> <td>0.50</td> <td>0.64</td> <td>0.83</td> <td>1.00</td> </tr> </tbody> </table>	Frequency	50Hz	120Hz	300Hz	1kHz	≥10kHz	Multiplier	0.35	0.50	0.64	0.83	1.00									
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■ Dimensions



	4 × 5.8	5 × 5.8	6.3 × 5.8	6.3 × 7.7	8 × 10	10 × 10
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.8	5.8	5.8	7.7	10	10
H	0.5 ~ 0.8			0.8 ~ 1.1		

■ 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	Z	I~	D × L mm	Z	I~	D × L mm	Z	I~	D × L mm	Z	I~	D × L mm	Z	I~	D × L mm	Z	I~	
1.0													4 × 5.8	3.0	60	4 × 5.8	5.0	30	
1.5													4 × 5.8	3.0	60	4 × 5.8	5.0	30	
2.2													4 × 5.8	3.0	60	4 × 5.8	5.0	30	
3.3													4 × 5.8	3.0	60	4 × 5.8	5.0	30	
4.7										4 × 5.8	3.0	60	4 × 5.8	3.0	60	5 × 5.8	3.0	50	
6.8										4 × 5.8	3.0	60	5 × 5.8	1.8	95				
10							4 × 5.8	3.0	60	5 × 5.8	1.8	95	5 × 5.8	1.8	95	6.3 × 5.8	2.0	80	
15							5 × 5.8	1.8	95	6.3 × 5.8	1.0	140	6.3 × 5.8	1.0	140				
22	4 × 5.8	3.0	60	5 × 5.8	1.8	95	5 × 5.8	1.8	95	6.3 × 5.8	1.0	140	6.3 × 5.8	1.0	140	6.3 × 7.7	1.0	120	
33	5 × 5.8	1.8	95	5 × 5.8	1.8	95	6.3 × 5.8	1.0	140	6.3 × 5.8	1.0	140	6.3 × 7.7	0.6	230	8 × 10	0.6	300	
47	5 × 5.8	1.8	95	6.3 × 5.8	1.0	140	6.3 × 5.8	1.0	140	6.3 × 7.7	0.6	230	6.3 × 7.7	0.6	230	10 × 10	0.3	500	
68	6.3 × 5.8	1.0	140	6.3 × 5.8	1.0	140	6.3 × 7.7	0.6	230	8 × 10	0.8	150							
100	6.3 × 5.8	1.0	140	6.3 × 7.7	0.6	230	6.3 × 7.7	0.6	230	8 × 10	0.3	450	10 × 10	0.15	670	10 × 10	0.3	500	
150	6.3 × 7.7	0.6	230	6.3 × 7.7	0.6	230													
220	6.3 × 7.7	0.6	230	8 × 10	0.3	450	10 × 10	0.15	670	10 × 10	0.15	670	10 × 10	0.15	670	10 × 10	0.3	500	
330	8 × 10	0.3	450				10 × 10	0.15	670	10 × 10	0.15	670	10 × 10	0.15	670				
470				10 × 10	0.15	670	10 × 10	0.15	670	10 × 10	0.15	670							
680							10 × 10	0.15	670										
1000	10 × 10	0.15	670	10 × 10	0.15	670													
1500	10 × 10	0.15	670																

↑ Rated ripple current (mA rms)
(105°C, 100kHz)
↑ Impedance (Ω)(20°C, 100kHz)