

VZ2 Series 片式铝电解电容器低阻抗品

Extra Low ESR Aluminum Electrolytic Capacitor of V-chip Type

- 适用于回流焊 ● 适用于高密度表面组装
- 性能稳定、可靠性高。 ● 低阻抗品 ● 寿命: +105°C, 2000 小时。
- Reflow soldering is available ● Available for high density surface mounting
- High stability and reliability ● Low impedance ● Life time: +105°C ,2000 Hrs.



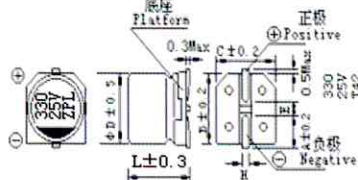
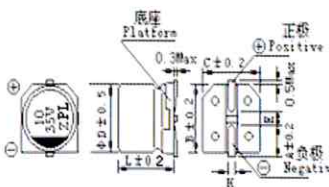
■ 主要技术性能 Specifications

使用温度范围 Operating Temperature Range	-55 ~ +105°C																																								
额定电压范围 Rated Voltage Range	6.3 ~ 100V DC																																								
标称容量允许偏差 Capacitance Tolerance	± 20% (120Hz, 20°C)																																								
漏电流(20°C) Leakage Current	$I \leq 0.01C_R U_R (\mu A)$ 或 $3 \mu A$ 取较大者, (2 分钟) $I \leq 0.01C_R U_R (\mu A)$ or $3 \mu A$ Whichever is greater (after 2 minutes)																																								
损耗角正切值(120Hz 20°C) Dissipation Factor (120Hz)	<table border="1"> <tr> <td>W.V.</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>tg δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> <td>0.08</td> </tr> </table>	W.V.	6.3	10	16	25	35	50	63	80	100	tg δ	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.08																				
W.V.	6.3	10	16	25	35	50	63	80	100																																
tg δ	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.08																																
温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	<table border="1"> <tr> <td>W.V.</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>$Z_{-25^\circ C} / Z_{+20^\circ C}$</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>$Z_{-40^\circ C} / Z_{+20^\circ C}$</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>$Z_{-55^\circ C} / Z_{+20^\circ C}$</td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	W.V.	6.3	10	16	25	35	50	63	80	100	$Z_{-25^\circ C} / Z_{+20^\circ C}$	2	2	2	2	2	2	2	2	2	$Z_{-40^\circ C} / Z_{+20^\circ C}$	3	3	3	3	3	3	3	3	3	$Z_{-55^\circ C} / Z_{+20^\circ C}$	4	4	4	3	3	3	3	3	3
W.V.	6.3	10	16	25	35	50	63	80	100																																
$Z_{-25^\circ C} / Z_{+20^\circ C}$	2	2	2	2	2	2	2	2	2																																
$Z_{-40^\circ C} / Z_{+20^\circ C}$	3	3	3	3	3	3	3	3	3																																
$Z_{-55^\circ C} / Z_{+20^\circ C}$	4	4	4	3	3	3	3	3	3																																
耐久性 Load Life	<p>+105°C施加额定电压 2000 小时,恢复 16 小时后,电容器应满足要求 After applying rated voltage for 2000 hours at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>$\leq \pm 20\%$ 初始测量值 ($\leq 16V: \pm 25\%$ 初始测量值) $\leq \pm 20\%$ of Initial measured value ($\leq 16V: \pm 25\%$ of the initial value)</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>\leq 规定值 \leq The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤ 2 倍规定值 $\leq 200\%$ of the specified value</td> </tr> </table>	电容量变化率 Capacitance Change	$\leq \pm 20\%$ 初始测量值 ($\leq 16V: \pm 25\%$ 初始测量值) $\leq \pm 20\%$ of Initial measured value ($\leq 16V: \pm 25\%$ of the initial value)	漏电流值 Leakage	\leq 规定值 \leq The specified value	损耗角正切值 Dissipation Factor	≤ 2 倍规定值 $\leq 200\%$ of the specified value																																		
电容量变化率 Capacitance Change	$\leq \pm 20\%$ 初始测量值 ($\leq 16V: \pm 25\%$ 初始测量值) $\leq \pm 20\%$ of Initial measured value ($\leq 16V: \pm 25\%$ of the initial value)																																								
漏电流值 Leakage	\leq 规定值 \leq The specified value																																								
损耗角正切值 Dissipation Factor	≤ 2 倍规定值 $\leq 200\%$ of the specified value																																								
高温贮存 Shelf Life	<p>+105°C,1000 小时, 恢复 16 小时后,电容器应满足下列要求。 After storage for 1000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>$\leq \pm 20\%$ 初始测量值 $\leq \pm 20\%$ of Initial measured value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤ 2 倍规定值 $\leq 200\%$ of the specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤ 1.2 倍规定值 $\leq 120\%$ of the specified value</td> </tr> </table>	电容量变化率 Capacitance Change	$\leq \pm 20\%$ 初始测量值 $\leq \pm 20\%$ of Initial measured value	漏电流值 Leakage	≤ 2 倍规定值 $\leq 200\%$ of the specified value	损耗角正切值 Dissipation Factor	≤ 1.2 倍规定值 $\leq 120\%$ of the specified value																																		
电容量变化率 Capacitance Change	$\leq \pm 20\%$ 初始测量值 $\leq \pm 20\%$ of Initial measured value																																								
漏电流值 Leakage	≤ 2 倍规定值 $\leq 200\%$ of the specified value																																								
损耗角正切值 Dissipation Factor	≤ 1.2 倍规定值 $\leq 120\%$ of the specified value																																								
耐焊接热 Resistance to Soldering Heat	<p>在 250°C 的条件下,电容器应在热板上保持 30 秒,然后从热板上取出电容器,让其在室温下恢复,电容器应满足以下要求: The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature,then meet the following requirement.</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>$\leq \pm 10\%$ 初始测量值 $\leq \pm 10\%$ of Initial measured value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>\leq 规定值 \leq The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>\leq 规定值 \leq The specified value</td> </tr> </table>	电容量变化率 Capacitance Change	$\leq \pm 10\%$ 初始测量值 $\leq \pm 10\%$ of Initial measured value	漏电流值 Leakage	\leq 规定值 \leq The specified value	损耗角正切值 Dissipation Factor	\leq 规定值 \leq The specified value																																		
电容量变化率 Capacitance Change	$\leq \pm 10\%$ 初始测量值 $\leq \pm 10\%$ of Initial measured value																																								
漏电流值 Leakage	\leq 规定值 \leq The specified value																																								
损耗角正切值 Dissipation Factor	\leq 规定值 \leq The specified value																																								

■ 尺寸及印字 Dimensions & Marking

(Φ4~Φ6.3×5.4)

(Φ6.3×7.7/Φ8~Φ10×10.2)



	mm						
Size	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×6.2	8×10.2	10×10.2
A	1.8	2.2	2.6	2.6	2.9	2.9	3.3
B/C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
L	5.4	5.4	5.4	7.7	6.2	10.2	10.2
H	0.5~0.9			0.9~1.1			

VZ2 Series

■ 规格壳号、最大允许纹波电流及阻抗值

Standard sizes & Maximum permissible ripple current & impedance

WV μF	6.3(0J)			10(1A)			16(1C)			25(1E)			35(1V)		
	D×L mm	Z (Ω)	I~mA	D×L mm	Z (Ω)	I~mA	D×L mm	Z (Ω)	I~mA	D×L mm	Z (Ω)	I~mA	D×L mm	Z (Ω)	I~mA
4.7										4×5.4	2.2	80	4×5.4	2.2	80
10							4×5.4	2.2	80	4×5.4	2.2	80	5×5.4	1.2	150
22	4×5.4	2.2	80	4×5.4	2.2	80	5×5.4	1.2	150	6.3×5.4	0.58	230	6.3×5.4	0.58	230
33	5×5.4	1.2	150	5×5.4	1.2	150	6.3×5.4	0.58	230	6.3×5.4	0.58	230	6.3×5.4	0.58	230
47	5×5.4	1.2	150	6.3×5.4	0.58	230	6.3×5.4	0.58	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280
100	6.3×5.4	0.58	230	6.3×7.7	0.34	280	6.3×5.4 6.3×7.7	0.52 0.34	230 280	6.3×7.7 8×6.2	0.34 0.26	280 300	8×10.2	0.17	450
150	6.3×5.4	0.58	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280	8×10.2	0.17	450	10×10.2	0.10	670
220	6.3×5.4 6.3×7.7	0.58 0.34	243 280	6.3×7.7	0.34	280	6.3×7.7 8×10.2	0.34 0.17	384 450	8×10.2	0.17	450	8×10.2 10×10.2	0.17 0.10	587 670
330	6.3×7.7	0.34	280	8×10.2	0.17	450	8×10.2	0.17	450	10×10.2	0.10	670	10×10.2	0.10	670
470	8×10.2	0.17	450	8×10.2	0.17	450	8×10.2 10×10.2	0.17 0.10	450 670	10×10.2	0.10	670			
1000	8×10.2 10×10.2	0.17 0.10	450 670	10×10.2	0.10	670	10×10.2	0.10	670						
1500	10×10.2	0.10	670												

WV μF	50(1H)			63(1J)			80(1K)			100(2A)		
	D×L mm	Z (Ω)	I~mA	D×L mm	Z (Ω)	I~mA	D×L mm	Z (Ω)	I~mA	D×L mm	Z (Ω)	I~mA
1.0	4×5.4	4.5	60									
2.2	4×5.4	4.5	60									
3.3	4×5.4	4.5	60				5×5.4	5.0	25			
4.7	5×5.4	3.5	85	5×5.4	3.0	50	6.3×5.4	3.0	40			
10	6.3×5.4	1.8	165	6.3×5.4 6.3×7.7	1.5 1.2	80 120	6.3×7.7	2.4	60			
22	6.3×7.7	1.6	185	6.3×7.7 8×6.2	1.2 1.2	120 120	8×10.2	1.3	130	8×10.2	1.3	130
33	6.3×7.7	1.6	185	8×10.2	0.65	250	8×10.2	1.3	130	10×10.2	0.7	200
47	8×10.2 10×10.2	0.4 0.3	300 342	8×10.2	0.65	250	10×10.2	0.7	200			
68	10×10.2	0.3	342	8×10.2	0.65	250						
100	10×10.2	0.22	670	10×10.2	0.35	400						
150	10×10.2	0.2	670									
220	10×10.2	0.18	670									

I~ 额定纹波电流 Rated ripple current: (mA, 105°C, 100KHz);

Z 阻抗值 Impedance: (Ω, 20°C, 100KHz)