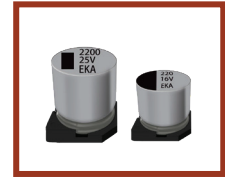


## SVKE Series 片式铝电解电容器 125℃耐高温品

Higher Temperature 125℃ Aluminum Electrolytic Capacitor of V-chip Type

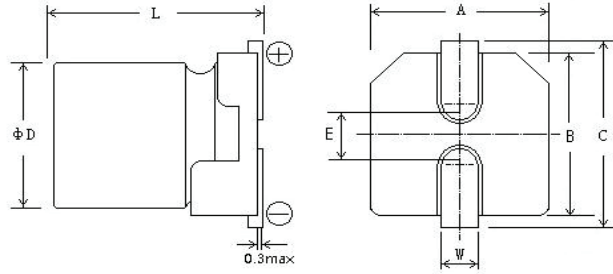


- 工作温度范围宽 (-40℃~+125℃) 1000~5000 小时 ● 适用于回流焊
- 适用于高密度表面组装 ● 适用于汽车电装品的高温用途 ● 符合 AEC-Q200。
- Operating over wide temperature range 1000~5000 hours. ● Reflow soldering is available.
- Suitable for high density surface assembly. ● Suitable for high temperature application of car denso.
- Compliance with AEC-Q200.

### ■主要技术性能 Specifications

使用温度范围 Operating Temperature Range	-40~+125℃																							
额定电压范围 Rated Voltage Range	10~100V DC																							
标称容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20℃)																							
漏电流 (20℃) Leakage Current	I ≤ 0.01CV (μA) 或 3 μA 取较大者, (2 分钟) I ≤ 0.01CV (μA) or 3 μA Whichever is greater (after 2 minutes) I=Leakage Current(μA) C=Capacitance(μF) V=Rated DC Working Voltage(V)																							
损耗角正切值 Dissipation Factor (120Hz 20℃)	Rated Voltage	10	16	25	35	50	63	80	100															
	Tanδ (max)	0.24	0.20	0.16	0.14	0.14	0.12	0.12	0.10															
	0.02 is added to every 1000μF increase over 1000μF																							
温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	Rated Voltage	10	16	25	35	50	63	80	100															
	Z-25℃/Z+20℃	3	2	2	2	2	2	2	2															
	Z-40℃/Z+20℃	4	3	3	3	3	3	3	3															
耐久性 Load Life	<p>在上限温度 125℃ 下施加额定电压规定时间后, 电容器应满足以下要求。 After the rated voltage is applied at the upper limit temperature of 125℃ for a specified time, the capacitor shall meet the following requirements.</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr> <td>电容量变化率 Capacitance Change</td> <td>≤±30%初始测量值 ≤±30% of Initial measured value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤规定值 ≤The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤3 倍规定值 ≤300% of the specified value</td> </tr> </table> <table border="1" style="display: inline-table;"> <thead> <tr> <th>Case Size (mm)</th> <th>Life Time (hrs)</th> </tr> </thead> <tbody> <tr> <td>Φ4~Φ8×6.5</td> <td>1000</td> </tr> <tr> <td>Φ8×10.2~10×10.2</td> <td>2000</td> </tr> <tr> <td>ΦD≥12.5</td> <td>5000</td> </tr> </tbody> </table>										电容量变化率 Capacitance Change	≤±30%初始测量值 ≤±30% of Initial measured value	漏电流值 Leakage	≤规定值 ≤The specified value	损耗角正切值 Dissipation Factor	≤3 倍规定值 ≤300% of the specified value	Case Size (mm)	Life Time (hrs)	Φ4~Φ8×6.5	1000	Φ8×10.2~10×10.2	2000	ΦD≥12.5	5000
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	Case Size (mm)	Life Time (hrs)																						
Φ4~Φ8×6.5	1000																							
Φ8×10.2~10×10.2	2000																							
ΦD≥12.5	5000																							
高温贮存 Shelf Life (125℃)	<p>试验时间: 1000 小时, 其他项目与耐久性相同。电压应用处理: 根据 JIS C5101-4.1 Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1</p>																							
额定纹波电流频率系数 Coefficient of Frequency for Rated Ripple Current	<table border="1" style="width: 100%;"> <thead> <tr> <th rowspan="2">Frequency Rated Voltage</th> <th>120Hz</th> <th>1KHz</th> <th>10KHz</th> <th>100KHz</th> </tr> </thead> <tbody> <tr> <td>10~100V</td> <td>0.77</td> <td>0.88</td> <td>0.96</td> <td>1.0</td> </tr> </tbody> </table>										Frequency Rated Voltage	120Hz	1KHz	10KHz	100KHz	10~100V	0.77	0.88	0.96	1.0				
	Frequency Rated Voltage	120Hz	1KHz	10KHz	100KHz																			
10~100V		0.77	0.88	0.96	1.0																			

## ■外形图 Outline Drawing



\*L±0.3mm, (L≥10.2mm, L±0.5mm)

Size	4×6.0	5×6.0	6.3×6.0	6.3×7.7	8×6.2	8×10.2	10×10.2	12.5×13.5	12.5×16	16×16.5	16×21.5	18×16.5	18×21.5
A/B±0.2	4.3	5.3	6.6	6.6	8.3	8.3	10.3	13.0	13.0	17.0	17.0	19.0	19.0
D±0.5	4	5	6.3	6.3	8.0	8.0	10	12.5	12.5	16.0	16.0	18.0	18.0
E±0.2	1.0	1.3	2.2	2.2	3.1	3.1	4.5	5.2	5.2	6.5	6.5	6.5	6.5
L	6.0	6.0	6.0	7.7	6.2	10.2	10.2	13.5	16.0	16.5	21.5	16.5	21.5
C±0.2	5.0	6.0	7.2	7.2	9.0	9.0	11.0	13.8	13.8	18	18	20	20
W	0.5~0.9				0.8~1.1			1.1~1.4					

## ■ 标称电容量、额定电压、额定纹波电流与外形尺寸对应表

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

Cap (μF)	WV	10 (1A)			16 (1C)			25 (1E)			35 (1V)		
		ΦD×L (mm)	Z max (Ω)	I (mA)	ΦD×L (mm)	Z max (Ω)	I (mA)	ΦD×L (mm)	Z max (Ω)	I (mA)	ΦD×L (mm)	Z max (Ω)	I (mA)
4.7											4×6.0	3.0	50
10					4×6.0	3.0	50	5×6.0	1.5	81	5×6.0 6.3×6.0	1.5 1.0	81 114
22		4×6.0	3.0	50	5×6.0	1.5	81	6.3×6.0	1.0	114	6.3×6.0	1.0	114
33		5×6.0	1.5	81	6.3×6.0	1.0	114	6.3×6.0	1.0	114	6.3×7.7	0.60	165
47					6.3×6.0	1.0	114	6.3×7.7	0.60	165	6.3×7.7 8×10.2	0.60 0.20	165 340
100								6.3×7.7 8×10.2	0.60 0.20	165 340	8×10.2 10×10.2	0.20 0.15	340 500
220		6.3×7.7 8×6.2	0.6 0.6	165 180	8×10.2 10×10.2	0.20 0.15	340 500	8×10.2 10×10.2	0.20 0.15	340 500	8×10.2 10×10.2	0.20 0.15	340 500
330		8×10.2 10×10.2	0.20 0.15	340 500	10×10.2	0.15	500	10×10.2 12.5×13.5	0.15 0.086	500 750	12.5×13.5 16×16.5	0.086 0.06	750 1000
470		10×10.2	0.15	500	12.5×13.5	0.086	750	12.5×13.5 16×16.5	0.086 0.06	750 1000	16×16.5	0.06	1000
680		12.5×13.5	0.086	750	12.5×13.5 16×16.5	0.086 0.06	750 1000	16×16.5 18×16.5	0.06 0.05	1000 1200	18×16.5	0.05	1200
1000		12.5×13.5	0.086	750	18×16.5	0.05	1200	18×21.5	0.042	1550	18×21.5	0.042	1550
2200		16×16.5	0.06	1000	18×16.5	0.05	1200						
3300		18×16.5	0.05	1200	18×21.5	0.042	1550						
4700		18×21.5	0.042	1550									

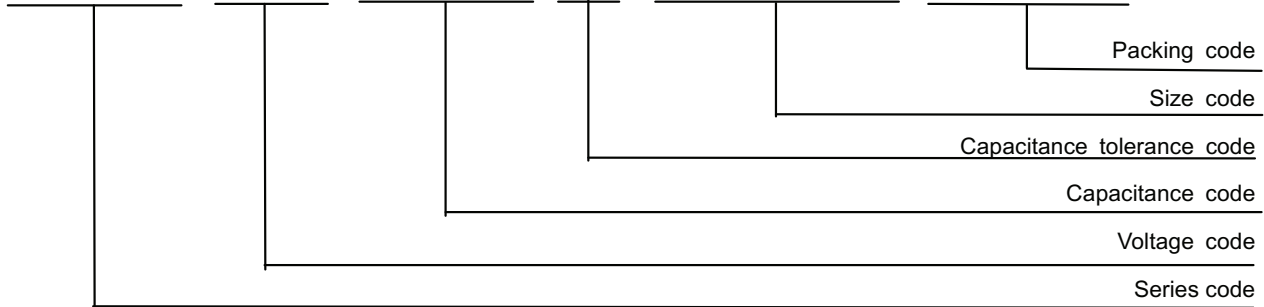
■ 标称电容量、额定电压、额定纹波电流与外形尺寸对应表

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

WV Cap ( $\mu$ F)	50 (1H)			63 (1J)			80 (1K)			100 (2A)		
	$\Phi$ D×L (mm)	Z max ( $\Omega$ )	I (mA)	$\Phi$ D×L (mm)	Z max ( $\Omega$ )	I (mA)	$\Phi$ D×L (mm)	Z max ( $\Omega$ )	I (mA)	$\Phi$ D×L (mm)	Z max ( $\Omega$ )	I (mA)
10	6.3×6.0	3.2	58				8×10.2	0.75	110	8×10.2	0.75	110
22	6.3×7.7	1.2	95	8×10.2	0.70	140	8×10.2 10×10.2	0.75 0.55	110 150	8×10.2 10×10.2	0.75 0.55	110 150
33	6.3×7.7 8×10.2	1.2 0.50	95 180	8×10.2 10×10.2	0.70 0.50	140 200	8×10.2 10×10.2	0.75 0.55	110 150	10×10.2	0.55	150
47	8×10.2 10×10.2	0.50 0.30	180 280	8×10.2 10×10.2	0.70 0.50	140 200				12.5×13.5	0.32	300
100	10×10.2 12.5×13.5	0.30 0.18	280 550	12.5×13.5	0.25	400	16×16.5	0.24	480	16×16.5	0.24	480
220	12.5×13.5	0.18	550	16×16.5	0.22	500	16×21.5	0.18	600	18×21.5	0.18	700
330	16×16.5	0.12	850	16×16.5	0.22	500	18×21.5	0.12	1000			
470	18×16.5	0.10	920	16×21.5	0.16	650						

I~额定纹波电流 Rated ripple current: (mA, 125°C,100KHz); Z 阻抗值 Impedance: ( $\Omega$ ,20°C,100KHz)

## PART NUMBER CONFIGURATION RULES:



Series code	Voltage (V)	Code	Capacitance (μF)	Code	Capacitance tolerance	Code	Size	Code	Packing	Code
SVZL	2.5	0E	0.1	0R1	±5%	J	4×5.4	0405	Paper reel	V1
SVT1	4	0G	0.22	R22	±10%	K	5×5.4	0505		
SVTD	6.3	0J	0.33	R33	±15%	Y	6.3×5.4	0605	Plastic reel	V2
SVLD	10	1A	0.47	R47	±20%	M	6.3×7.7	0607		
SVZ2	16	1C	0.68	R68	-10~-30%	Q	8×6.2	0806	Vacuum packaging	V3
SVZS	25	1E	1.0	010	Others	T	8×8	0808		
SVTG	35	1V	2..2	2R2			8×10.2	0810	Automotive Grade	V1C
SVLG	50	1H	3.3	3R3			10×10.2	1010		
SVKG	63	1J	4.7	4R7			10×12.5	1012	Anti-vibration	V1G
SVTK	80	1K	6.8	6R8			12.5×13.5	1213		
SVKZ	100	2A	10	100			12.5×16	1216	Automotive Grade	V2C
SVTL	160	2C	22	220			16×16.5	1616		
SVLL	180	2J	33	330			16×21.5	1621	Anti-vibration	V2G
	200	2D	47	470			18×16.5	1816		
	220	2P	68	680			18×21.5	1821		
	250	2E	100	101						
	315	2F	220	221						
	330	2U	330	331						
	350	2V	470	471						
	400	2G	680	681						
	420	2M	1000	102						
	450	2W	2200	222						
	500	2H	3300	332						
	550	2J	4700	472						
	600	2K	6800	682						
			10000	103						
			22000	223						
			33000	333						
			68000	683						