



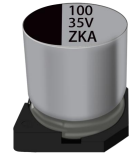
鋁電解電容器

Aluminum Electrolytic Capacitor

VZS Series 片式铝电解电容器低阻抗品

Aluminum Electrolytic Capacitor of V-chip Type

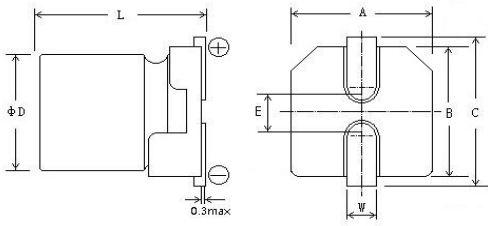
- 寿命: +105 °C 2000 小时 Life time: +105 °C 2000 Hrs
- 小型化、超低 ESR Miniaturization, low ESR
- 可满足耐振要求 It can meet the requirements of vibration resistance
- 符合 AEC-Q200 According to AEC-Q200
- 已应对 RoHS 指令 According to RoHS



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	6.3~80V DC								
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20°C)								
漏电流(20°C) 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°C)	WV	6.3	10	16	25	35	50	63	80
	tg δ	0.26	0.19	0.16	0.14	0.12	0.10	0.08	0.08
	0.02 is added to every 1000μF increase over 1000μF								
温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	WV	6.3	10	16	25	35	50	63	80
	Z _{-25°C} /Z _{+20°C}	2	2	2	2	2	2	2	2
	Z _{-40°C} /Z _{+20°C}	3	3	3	3	3	3	3	3
	Z _{-55°C} /Z _{+20°C}	4	4	4	3	3	3	3	3
耐久性 Load Life	+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.								
	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	≤ 2 倍规定值 ≤ 200% of the specified value							
高温贮存 Shelf Life (105°C)	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								
额定纹波电流频率系数 Coefficient of Frequency for Rated Ripple Current	Frequency	120Hz	1KHz	10KHz	100KHz				
	Capacitance	120Hz	1KHz	10KHz	100KHz				
	1.0~180μF	0.40	0.75	0.90	1.00				
	220~560μF	0.50	0.85	0.94	1.00				
	680μF~	0.60	0.87	0.95	1.00				

外形图 Outline Drawing



Size	4×6.0	5×6.0	6.3×6.0	6.3×7.7	8×10.2	10×10.2
A/B ±0.2	4.3	5.3	6.6	6.6	8.3	10.3
D±0.5	4.0	5.0	6.3	6.3	8.0	10
E±0.2	1.0	1.3	2.2	2.2	3.1	4.5
L	6.0±0.3	6.0±0.3	6.0±0.3	7.7±0.3	10.2±0.5	10.2±0.5
C±0.2	5.0	6.0	7.2	7.2	9.0	11.0
W	0.5~0.9				0.8~1.1	

规格壳号、最大允许纹波电流及阻抗值

Standard sizes & Maximum permissible ripple current & impedance

WV Cap (μF)	6.3V			10V			16V			25V		
	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)
22										4×6.0	0.85	160
33										4×6.0	0.85	160
47							4×6.0	0.85	160	5×6.0	0.36	240
68				4×6.0	0.85	160	5×6.0	0.36	240	5×6.0	0.36	240
100	4×6.0	0.85	160				5×6.0	0.36	240	6.3×6.0	0.26	300
150				5×6.0	0.36	240	6.3×6.0	0.26	300	6.3×6.0 6.3×7.7	0.26 0.16	300 600
220	5×6.0	0.36	240	6.3×6.0	0.26	300	6.3×6.0	0.26	300	6.3×7.7	0.16	600
330	6.3×6.0	0.26	300	6.3×7.7	0.16	600	6.3×7.7	0.16	600			
470	6.3×7.7	0.16	600	6.3×7.7	0.16	600				8×10.2	0.08	850
560	6.3×7.7	0.16	600	6.3×7.7	0.16	600				8×10.2	0.08	850
680	6.3×7.7	0.16	600				8×10.2	0.08	850	8×10.2	0.08	850
820	6.3×7.7	0.16	600				8×10.2	0.08	850	10×10.2	0.06	1190
1000				8×10.2	0.08	850	8×10.2	0.08	850	10×10.2	0.06	1190
1200				8×10.2	0.08	850	10×10.2	0.06	1190	10×10.2	0.06	1190
1500	8×10.2	0.08	850	10×10.2	0.06	1190	10×10.2	0.06	1190			
2200	8×10.2 10×10.2	0.08 0.06	850 1190	10×10.2	0.06	1190						

WV Cap (μF)	35V			50V			63V			80V		
	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)
22	4×6.0	0.85	160	5×6.0	0.88	165	6.3×7.7	0.85	85			
33	5×6.0	0.36	240				6.3×7.7	0.85	145			
47	5×6.0	0.36	240	6.3×6.0	0.68	195	8×10.2	0.45	300	8×10.2	0.68	150
68	6.3×6.0	0.26	300	6.3×6.0	0.68	195	8×10.2	0.45	300	10×10.2	0.45	215
100	6.3×6.0	0.26	300	6.3×7.7	0.34	350	8×10.2	0.45	300			
150	6.3×7.7	0.16	600				10×10.2	0.30	430			
220				8×10.2	0.18	670						
330	8×10.2	0.08	850	10×10.2	0.12	900						
470	8×10.2	0.08	850									
560	10×10.2	0.06	1190									

I~额定纹波电流 Rated ripple current: (mA, 105°C, 100KHz) ; Z 阻抗值 Impedance: (Ω, 20°C, 100KHz)