

## VZ Chip Type Aluminum Electrolytic Capacitors

### Features

- Low impedance.
- Reflow soldering is available.
- Available for high density surface mounting.
- Operating over wide temperature range(-55°C ~ +105°C).
- Adapted to the RoHS directive.



Surface Mount

### Specifications

Item	Performance Characteristics					
Operating Temperature Range	-55°C ~ +105°C					
Rated Voltage Range	6.3~35V					
Nominal Capacitance Range	1~220μF					
Nominal Capacitance Tolerance	±20%(+20°C ,120Hz)					
Leakage Current	$I \leq 0.01C_R U_R$ or 3(μA), Whichever is greater (at 20°C , after 2 minutes) $C_R$ : Nominal capacitance(μF) , $U_R$ : Rated voltage(V)					
Dissipation Factor(Max) ( tgδ,+20°C ,120Hz )	$U_R$ (V)	6.3	10	16	25	35
	tgδ	0.22	0.19	0.16	0.14	0.12
Load Life	After 1000 hours' application of rated voltage at 105°C , the capacitor shall meet the following requirement:					
	Capacitance change	Within ±20% of the initial value( ≤ 16V: within ±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				
Shelf Life	After storage for 1000 hours at 105°C , the capacitors shall meet the requirement of load life above.					
Low Temperature Stability Impedance Ratio(120Hz)	$U_R$ (V)	6.3	10	16	25	35
	Z-25°C /+20°C	2	2	2	2	2
	Z-40°C /+20°C	4	4	3	3	3
Resistance to Soldering Heat	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, they meet the following requirement:					
	Capacitance change	Within ±10% of the initial value				
	Dissipation factor	Not more than the initial specified value				
	Leakage current	Not more than the initial specified value				

### Diagram of Dimensions

voltage 电压  
 series 型号  
 capacitance 容量  
 plastic platform 座板  
 positive ⊕ 正极  
 negative ⊖ 负极

Unit: mm

ΦD	A	B	C	E	L	H
4×5.4	1.8	4.3	4.3	1.0	5.4	0.5~0.8
5×5.4	2.1	5.3	5.3	1.3	5.4	
6.3×5.4	2.4	6.6	6.6	2.2	5.4	
6.3×7.7	2.4	6.6	6.6	2.2	7.7	

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

V Item Cap.(μF)	6.3			10			16			25			35			
	ΦD×L (mm)	Impedance Ω	I~ (mA)	ΦD×L (mm)	Impedance Ω	I~ (mA)	ΦD×L (mm)	Impedance Ω	I~ (mA)	ΦD×L (mm)	Impedance Ω	I~ (mA)	ΦD×L (mm)	Impedance Ω	I~ (mA)	
1.0													4×5.4	5.0	50	
1.5													4×5.4	5.0	50	
2.2													4×5.4	5.0	50	
3.3													4×5.4	5.0	50	
4.7											4×5.4	5.0	50	4×5.4	5.0	50
6.8											4×5.4	2.6	50	5×5.4	2.6	80
10							4×5.4	5.0	50	5×5.4	2.6	80	5×5.4	2.6	80	
15							5×5.4	2.6	80	6.3×5.4	1.3	80	6.3×5.4	1.3	115	
22	4×5.4	5.0	50	5×5.4	2.6	80	5×5.4	2.6	80	6.3×5.4	1.3	115	6.3×5.4	1.3	115	
33	5×5.4	2.6	80	5×5.4	2.6	80	6.3×5.4	1.3	115	6.3×5.4	1.3	115	6.3×7.7	0.8	150	
47	5×5.4	2.6	80	6.3×5.4	1.3	115	6.3×5.4	1.3	115	6.3×7.7	0.8	150	6.3×7.7	0.8	150	
68	6.3×5.4	1.3	115	6.3×5.4	1.3	115	6.3×7.7	0.8	150	6.3×7.7	0.8	150				
100	6.3×5.4	1.3	115	6.3×7.7	0.8	150	6.3×7.7	0.8	150							
150	6.3×7.7	0.8	150	6.3×7.7	0.8	150										
220	6.3×7.7	0.8	150													

I~ =Rated ripple current (mA) (105° C ,100KHz)  
 Low impedance (20° C ,100KHz)

**Frequency coefficient of ripple current**

Frequency	50Hz	120Hz	300Hz	1kHz	10KHz ~ 100KHz
Coefficient	0.64	0.50	0.64	0.83	1.00