

VZ Chip Type Aluminum Electrolytic Capacitors

Features

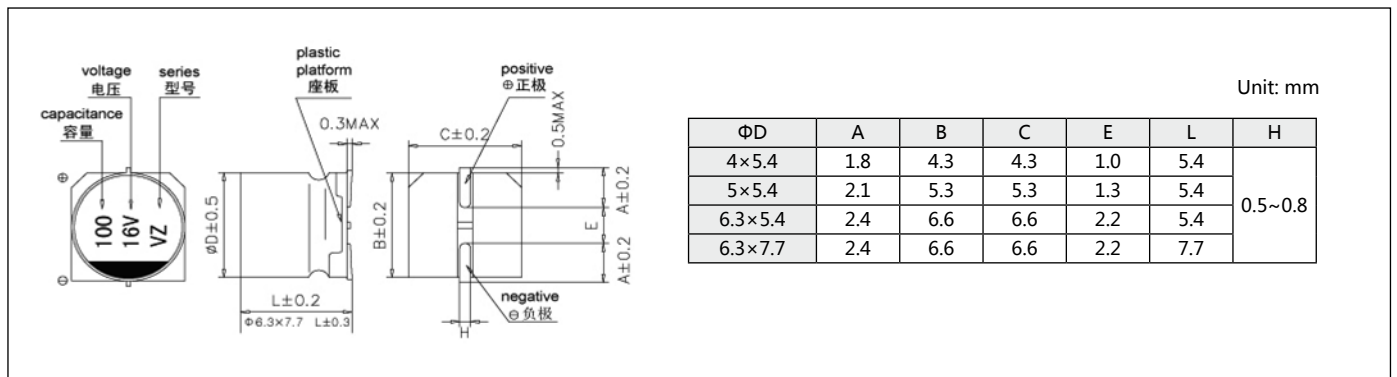
- Low impedance.
- Reflow soldering is available.
- Available for high density surface mounting.
- Operating over wide temperature range(-55°C ~ +105°C).
- Adapted to the RoHS directive.



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



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