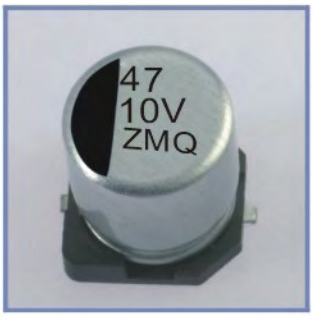
VZ2 Series Aluminum Electrolytic Capacitor



Features

- Reflow soldering is available
- Available for high density surface mounting
- High stability and reliability
- Lower Impedance
- Lifetime: +105℃ ,2000 Hr.

RoHS

Specifications

Operating Temperature Range	-55～+105℃
Rated Voltage Range	6.3～100V DC
Nominal Capacitance Range	1.0～1500μF
Capacitance Tolerance	±20% (120Hz, 20℃)
Leakage Current	I≤0.01CRUR(μA) or 3μA Whichever is greater (after 2 minutes)

Dissipation Factor (120Hz 20℃)

U_R(V)	6.3	10	16	25	35	50	63	80	100
tgδ	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.08

Temperature Characteristics Impedance Ratio(120Hz)

U_R(V)	6.3	10	16	25	35	50	63	80	100
Z−25℃/Z+20℃	2	2	2	2	2	2	2	2	2
Z−40℃/Z+20℃	3	3	3	3	3	3	3	3	3
Z−35℃/Z+20℃	4	4	4	3	3	3	3	3	3

Load Life

After applying rated voltage for 2000 hours at +105℃ and then resumed 16 hours. The capacitor shall meet the following limits.

Capacitance Change	≤±20% of Initial measured value (≤16V:±25% of the initial value)
Leakage	≤ Initial specified value
Dissipation Factor	≤200% of Initial specified value

Shelf Life

After storage for 1000 hours at +105℃ and then resumed 16 hours, the capacitor shall meet the following limits.

Capacitance Change	≤±20% of Initial measured value
Leakage	≤200% of Initial specified value
Dissipation Factor	≤120% of Initial specified value

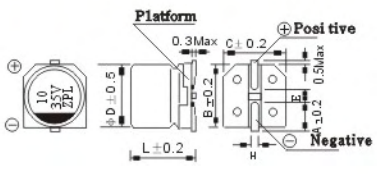
Resistance to Soldering Heat

The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature, then meet the following requirement.

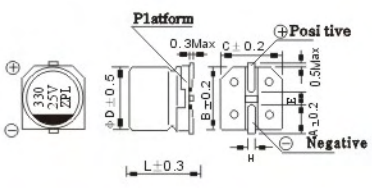
Capacitance Change	≤±10% of Initial measured value
Leakage	≤Initial specified value
Dissipation Factor	≤Initial specified value

Dimensions & Marking

(φ4~φ6.3×5.4)



(φ6.3×7.7/φ8~φ10×10.2)



mm

Size	4X5.4	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		

Standard sizes & Maximum permissible ripple current & impedance

V / μF	6.3V 0J			10 1A			16 1C			25 1E			35 1V		
	D×L mm	Impedance Ω	Ripple Current mA	D×L mm	Impedance Ω	Ripple Current mA	D×L mm	Impedance Ω	Ripple Current mA	D×L mm	Impedance Ω	Ripple Current mA	D×L mm	Impedance Ω	Ripple Current 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												

V / μF	50 1H			63 1J			80 1K			100 2A		
	D×L mm	Impedance Ω	Ripple Current mA	D×L mm	Impedance Ω	Ripple Current mA	D×L mm	Impedance Ω	Ripple Current mA	D×L mm	Impedance Ω	Ripple Current 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									

Rated ripple current：(mA , 105℃,120Hz)； Impedance： (Ω,20℃,100KHz)