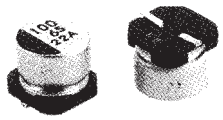
ALUMINUM ELECTROLYTIC CAPACITORS
VZH Series: Surface Mount, Ultra Low Impedance

FEATURES

- •105°C, 2000 ~ 5000 hours assured
- •Ultra Low Impedance Capacitors
- •RoHS Compliant



SPECIFICATIONS

Items	Performance									
Operating Temperature Range	6.3 ~ 63V							80 ~ 100V		
	-55℃ ~ +105℃							-40℃ ~ +105℃		
Capacitance Tolerance	±20%									
Leakage Current (at 20℃)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C= rated capacitance in μF. V= rated DC working voltage in V.									
Dissipation Factor (Tanδat 120Hz, 20℃)	Rated Voltage	6.3	10	16	25	35	50	63	80	100
	Tanδ(max)	0.30	0.26	0.22	0.16	0.13	0.10	0.08	0.08	0.07
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.									
	Rated Voltage		6.3	10	16	25	35	50	63	80	100
	Impedance Ratio	Z (-25℃)/Z(+20℃)	4	3	2	2	2	2	2	2	2
		Z(-40℃)/Z(+20℃)	8	5	4	3	3	3	3	3	3
Load Life Test	Test Time	2,000 Hrs for 4 ~ 6.3Φ			3,000 Hrs for 8 ~ 10Φ			5,000 Hrs for 12.5 ~ -16Φ		
	Capacitance Change	Within ±25% of initial value			Within ±30% of initial value			Within ±30% of initial value		
	Dissipation Factor	Less than 200% of specified value			Less than 300% of specified value			Less than 300% of specified value		
	Leakage Current	Within specified value			Within specified value			Within specified value		
	* The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 2,000 ~ 5,000 hrs at 105℃									
Shelf Life Test	Test Time: 1000 hrs; other items are the same as those for the load life test									
Ripple Current & Frequency Multipliers	Freq. (Hz) / V.DC (V)	50, 60	120	1k	1k up					
	6.3 ~ 100	0.64	0.8	0.93	1.0					
Standards	JIS C 5101-1									

PAD SPACING AND DIAMETER

φD	L	A ±0.2	B ±0.2	C ±0.2	W	P±0.2	Fig. No.
4	5.7 ± 0.3	4.3	4.3	2.0	0.5 to 0.8	1.0	1
5	5.7 ± 0.3	5.3	5.3	2.3	0.5 to 0.8	1.5	1
6.3	5.7 ± 3.3	6.3	6.3	2.7	0.5 to 0.8	2.0	1
6.3	7.7 ± 0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	1
8	10 ± 0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	1
10	10 ± 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	1
12.5	13.5 ± 0.5	12.8	12.8	4.9	1.1 to 1.4	4.2	2
12.5	16 ± 0.5	12.8	12.8	4.9	1.1 to 1.4	4.2	2
16	16.5 ± 0.5	16.3	16.3	5.8	1.8 to 2.2	6.0	2

Figure 1

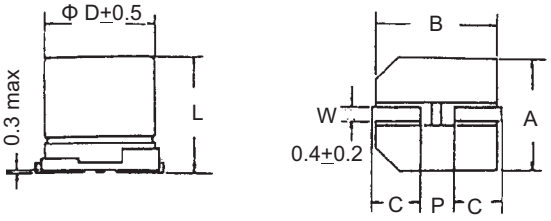
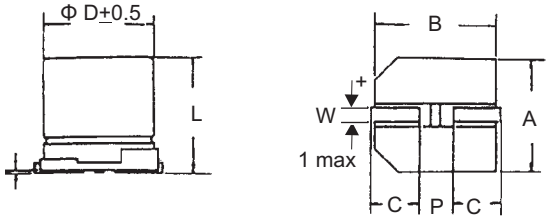


Figure 2



PART NUMBER EXAMPLE VZH 101 MI V TR 080 100

ALUMINUM ELECTROLYTIC CAPACITORS
VZH Series: Surface Mount, Ultra Low Impedance

DIMENSION, IMPEDANCE & PERMISSIBLE RIPPLE CURRENT

Dimension: φD x L(mm)
Ripple Current mA/rms at 100KHz, 105°C
Impedance: at 100KHz, 20ºC

V.DC		6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)		
μF	Contents	ΦD x L	mA	Imp.	ΦD x L	mA	Imp.	ΦD x L	mA	Imp.	ΦD x L	mA	Imp.	ΦD x L	mA	Imp.
4.7	4R7													4 x 5.7	80	1.35
10	100							4 x 5.7	80	1.35	4 x 5.7	80	1.35	5 x 5.7	150	0.80
22	220	4 x 5.7	80	1.35	4 x 5.7	80	1.35	5 x 5.7	150	0.80	5 x 5.7	150	0.80	6.3 x 5.7	230	0.44
33	330	4 x 5.7	80	1.35	5 x 5.7	150	0.80	6.3 x 5.7	230	0.44	6.3 x 5.7	230	0.44	6.3 x 5.7	230	0.44
47	470	5 x 5.7	150	0.80	6.3 x 5.7	230	0.44	6.3 x 5.7	230	0.44	6.3 x 5.7	230	0.44	6.3 x 5.7	230	0.44
100	101	6.3 x 5.7	230	0.44	6.3 x 5.7	230	0.44	6.3 x 5.7	230	0.44	6.3 x 7.7	280	0.36	8 x 10	450	0.17
150	151	6.3 x 5.7	230	0.44	6.3 x 5.7	230	0.44	6.3 x 7.7	280	0.36	8 x 10	450	0.17	8 x 10	450	0.17
220	221	6.3 x 7.7	280	0.36	6.3 x 7.7	280	0.36	6.3 x 7.7	280	0.36	8 x 10	450	0.17	10 x 10	670	0.09
330	331	8 x 10	450	0.17	8 x 10	450	0.17	8 x 10	450	0.17	8 x 10	450	0.17	12.5 x 13.5	820	0.07
470	471	8 x 10	450	0.17	8 x 10	450	0.17	8 x 10	450	0.17	10 x 10	670	0.09	12.5 x 16	950	0.06
680	681	8 x 10	450	0.17	10 x 10	670	0.09	10 x 10	670	0.09	12.5 x 13.5	820	0.07	12.5 x 16	950	0.06
1,000	102	8 x 10	450	0.17	10 x 10	670	0.09	12.5 x 13.5	820	0.07	12.5 x 16	950	0.06	16 x 16.5	1,260	0.054
1,500	152	10 x 10	670	0.09	13 x 13.5	820	0.07	12.5 x 16	950	0.06	16 x 16.5	1,260	0.054			
2,200	222	12.5 x 14	820	0.07	13 x 16	950	0.06	16 x 16.5	1,260	0.054	16 x 16.5	1,260	0.054			
3,300	332	12.5 x 16	950	0.06	16 x 16.5	1,260	0.054	16 x 16.5	1,260	0.054						
4,700	472	16 x 17	1,260	0.054	16 x 16.5	1,260	0.054									

V.DC		50V (1H)			63V (1J)			80V (1K)			100V (2A)		
μF	Contents	ΦD x L	mA	Imp.	ΦD x L	mA	Imp.	ΦD x L	mA	Imp.	ΦD x L	mA	Imp.
1	010	4 x 5.7	60	2.9									
2.2	2R2	4 x 5.7	60	2.9									
3.3	3R3	4 x 5.7	60	2.9									
4.7	4R7	5 x 5.7	85	1.52	5 x 5.7	85	1.52						
10	100	6.3 x 5.7	165	0.88	6.3 x 5.7	165	0.88						
22	220	6.3 x 5.7	165	0.88	6.3 x 7.7	185	0.68						
33	330	6.3 x 7.7	185	0.68	8 x 10	369	0.34						
47	470	6.3 x 7.7	185	0.68	8 x 10	369	0.34				10 x 10	200	0.7
68	680	8 x 10	369	0.34	10 x 10	553	0.18	10 x 10	200	0.7	12.5 x 13.5	450	0.32
100	101	8 x 10	369	0.34	10 x 10	553	0.18	12.5 x 13.5	450	0.32	12.5 x 16	550	0.26
150	151	10 x 10	553	0.18	12.5 x 13.5	650	0.12	12.5 x 13.5	450	0.32	16 x 16.5	650	0.17
220	221	10 x 10	5563	0.18	12.5 x 13.5	650	0.12	12.5 x 16	550	0.26			
330	331	12.5 x 13.5	650	0.12	16 x 16.5	900	0.082	16 x 16.5	650	0.17			
470	471	16 x 16.5	900	0.082	16 x 16.5	900	0.082						
680	681	16 x 16.5	900	0.082									