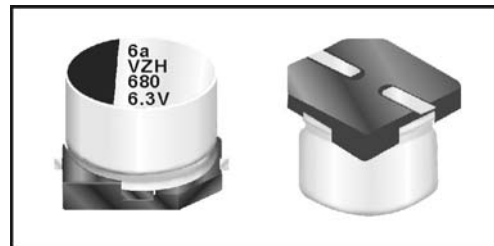


CE32 Type

Features:

- 4 ~ 16φ 105°C, 2,000 ~ 5,000 hours assured, long life assured
- Chip type large capacitance capacitors
- Ultra low impedance capacitors
- Designed for surface mounting on high density PC board.
- RoHS Compliance



SPECIFICATIONS

Items	Performance																													
Operating Temperature Range	6.3 ~ 63V	80 ~ 100V																												
	-55°C ~ +105°C	-40°C ~ +105°C																												
Capacitance Tolerance	±20% (at 120Hz, 20°C)																													
Leakage Current (at 20°C)	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 (Tan δ at 120Hz, 20°C)	<table border="1"> <tr> <td>Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>Tanδ(max)</td> <td>0.30</td> <td>0.26</td> <td>0.22</td> <td>0.16</td> <td>0.13</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> <td>0.07</td> </tr> </table>										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
	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°C)/Z(+20°C)	4	3	2	2	2	2	2	2	2																			
Z(-40°C)/Z(+20°C)		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°C after the rated voltage applied for 2,000 ~ 5,000 hrs at 105°C.																														
Shelf Life Test	Test time: 1,000 hrs; other items are the same as those for the load life test.																													
Ripple Current & Frequency Multipliers	Freq.(Hz)		50, 60	120	1K	1K up																								
	V.DC(V)		6.3 ~ 100	0.64	0.8	0.93	1.0																							
Other Standards	JIS C 5101-1, -18																													

DIAGRAM OF DIMENSIONS

Fig. 1

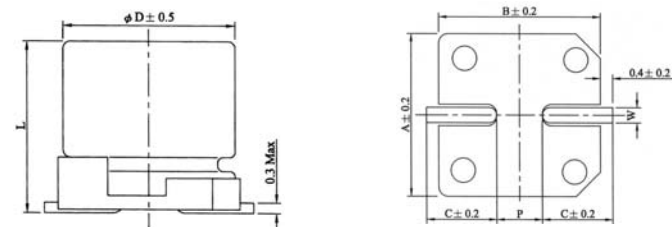
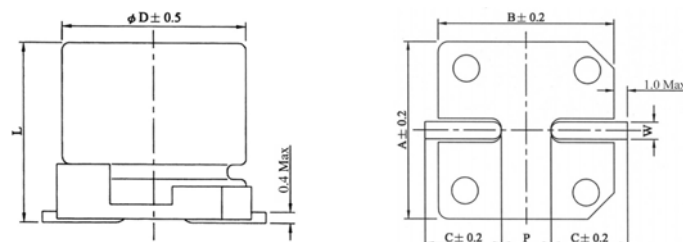


Fig. 2



LEAD SPACING AND DIAMETER

Unit: mm

φ D	L	A	B	C	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±0.3	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



SMD Aluminum Electrolytic Capacitors

VZH

CE32 Type

Dimension: $\varphi D \times L(\text{mm})$

Ripple Current: mA/rms at 100K Hz, 105°C

Impedance: $\Omega/$ at 100K Hz, 20°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC		6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)		
μF	Contents	$\varphi D \times L$	Imp	mA	$\varphi D \times L$	Imp	mA	$\varphi D \times L$	Imp	mA	$\varphi D \times L$	Imp	mA	$\varphi D \times L$	Imp	mA
4.7	4R7													4×5.7	1.35	80
10	100							4×5.7	1.35	80	4×5.7	1.35	80	5×5.7	0.80	150
22	220	4×5.7	1.35	80	4×5.7	1.35	80	5×5.7	0.80	150	5×5.7	0.80	150	6.3×5.7	0.44	230
33	330	4×5.7	1.35	80	5×5.7	0.80	150	6.3×5.7	0.44	230	6.3×5.7	0.44	230	6.3×5.7	0.44	230
47	470	5×5.7	0.80	150	6.3×5.7	0.44	230	6.3×5.7	0.44	230	6.3×5.7	0.44	230	6.3×5.7	0.44	230
100	101	6.3×5.7	0.44	230	6.3×5.7	0.44	230	6.3×5.7	0.44	230	6.3×7.7	0.36	280	8×10	0.17	450
150	151	6.3×5.7	0.44	230	6.3×5.7	0.44	230	6.3×7.7	0.36	280	8×10	0.17	450	8×10	0.17	450
220	221	6.3×7.7	0.36	280	6.3×7.7	0.36	280	6.3×7.7	0.36	280	8×10	0.17	450	10×10	0.09	670
330	331	8×10	0.17	450	8×10	0.17	450	8×10	0.17	450	8×10	0.17	450	12.5×13.5	0.070	820
470	471	8×10	0.17	450	8×10	0.17	450	8×10	0.17	450	10×10	0.09	670	12.5×16	0.060	950
680	681	8×10	0.17	450	10×10	0.09	670	10×10	0.09	670	12.5×13.5	0.070	820	12.5×16	0.060	950
1000	102	8×10	0.17	450	10×10	0.09	670	12.5×13.5	0.070	820	12.5×16	0.060	950	16×16.5	0.054	1,260
1500	152	10×10	0.09	670	12.5×13.5	0.070	820	12.5×16	0.060	950	16×16.5	0.054	1,260			
2200	222	12.5×13.5	0.070	820	12.5×16	0.060	950	16×16.5	0.054	1,260	16×16.5	0.054	1,260			
3300	332	12.5×16	0.060	950	16×16.5	0.054	1,260	16×16.5	0.054	1,260						
4700	472	16×16.5	0.054	1,260	16×16.5	0.054	1,260									

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