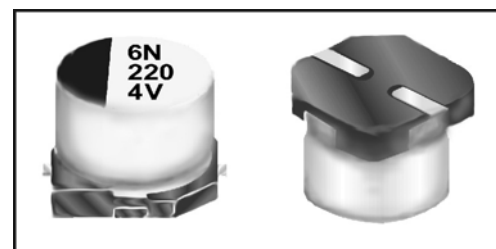


## CE32 Type

### Features

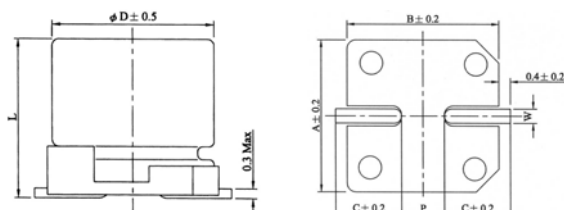
- Vertical chip type miniaturized for 5.5mm, high capacitors



### SPECIFICATIONS

Items	Performance																										
Operating Temperature Range	-40°C ~ +85°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>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tan δ (max)</td> <td>0.42</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	Rated Voltage	4	6.3	10	16	25	35	50	Tan δ (max)	0.42	0.28	0.24	0.20	0.14	0.12	0.10										
Rated Voltage	4	6.3	10	16	25	35	50																				
Tan δ (max)	0.42	0.28	0.24	0.20	0.14	0.12	0.10																				
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. <table border="1"> <tr> <td colspan="2">Rated Voltage</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>7</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>15</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage		4	6.3	10	16	25	35	50	Impedance Ratio	Z(-25°C)/Z(+20°C)	7	3	3	2	2	2	2	Z(-40°C)/Z(+20°C)	15	8	5	4	3	3	3
Rated Voltage		4	6.3	10	16	25	35	50																			
Impedance Ratio	Z(-25°C)/Z(+20°C)	7	3	3	2	2	2	2																			
	Z(-40°C)/Z(+20°C)	15	8	5	4	3	3	3																			
Load Life Test	<table border="1"> <tr> <td>Test Time</td> <td>2000 Hrs</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value (4WV : ±30%)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 200% of specified value (4WV : 300%)</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2000 hrs at 85°C.</p>	Test Time	2000 Hrs	Capacitance Change	Within ±20% of initial value (4WV : ±30%)	Dissipation Factor	Less than 200% of specified value (4WV : 300%)	Leakage Current	Within specified value																		
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Leakage Current	Within specified value																										
Shelf Life Test	Test time: 1000 hrs; other items are the same as those for the load life test.																										
Ripple Current & Frequency Multipliers	<table border="1"> <tr> <th>V.DC(V) \ Freq.(Hz)</th> <th>50</th> <th>120</th> <th>1K</th> <th>10K up</th> </tr> <tr> <td>Under 16</td> <td>0.8</td> <td>1.0</td> <td>1.15</td> <td>1.25</td> </tr> <tr> <td>25 ~ 35</td> <td>0.8</td> <td>1.0</td> <td>1.25</td> <td>1.40</td> </tr> <tr> <td>50</td> <td>0.8</td> <td>1.0</td> <td>1.35</td> <td>1.50</td> </tr> </table>	V.DC(V) \ Freq.(Hz)	50	120	1K	10K up	Under 16	0.8	1.0	1.15	1.25	25 ~ 35	0.8	1.0	1.25	1.40	50	0.8	1.0	1.35	1.50						
V.DC(V) \ Freq.(Hz)	50	120	1K	10K up																							
Under 16	0.8	1.0	1.15	1.25																							
25 ~ 35	0.8	1.0	1.25	1.40																							
50	0.8	1.0	1.35	1.50																							
Other Standards	JIS C 5101-18																										

### DIAGRAM OF DIMENSIONS



Unit: mm

φD	L	A	B	C	W	P±0.2
4	5.3±0.2	4.3	4.3	2.0	0.5 to 0.8	1.0
5	5.3±0.2	5.3	5.3	2.3	0.5 to 0.8	1.5
6.3	5.3±0.2	6.6	6.6	2.7	0.5 to 0.8	2.0

### DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: φD × L(mm)

Ripple Current: mA/rms at 120 Hz, 85°C

V.DC μF	Contents	4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD	mA
0.1	0R1													4×5.3	3
0.22	R22													4×5.3	5
0.33	R33													4×5.3	6
0.47	R47													4×5.3	7
1	010													4×5.3	10
2.2	2R2													4×5.3	15
3.3	3R3													4×5.3	19
4.7	4R7									4×5.3	19	4×5.3	20	5×5.3	26
10	100					4×5.3	23	4×5.3	26	5×5.3	32	5×5.3	34	6.3×5.3	44
22	220			4×5.3	31	5×5.3	39	5×5.3	44	6.3×5.3	55	6.3×5.3	59		
33	330	4×5.3	31	5×5.3	44	5×5.3	48	6.3×5.3	63	6.3×5.3	67				
47	470	4×5.3	37	5×5.3	52	6.3×5.3	67	6.3×5.3	75						
100	101	5×5.3	63	6.3×5.3	89	6.3×5.3	98	6.3×5.3	103						
220	221	6.3×5.3	110												

Remark: VE2 is the new series name, RV2 is still effective.