



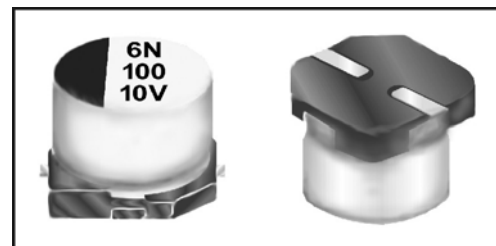
Aluminum Electrolytic Capacitors

RVL/VEL

CE32 Type

Features

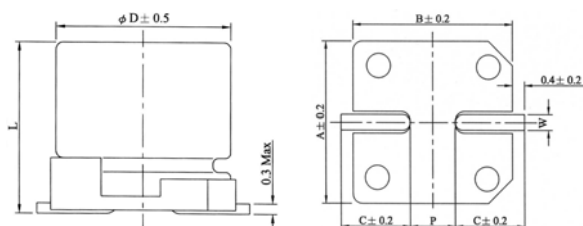
- 105°C, 2000 hours assured
- Vertical chip type miniaturized for 6.0mm



SPECIFICATIONS

Items	Performance																																		
Operating Temperature Range	-55℃ ~ +105℃																																		
Capacitance Tolerance	±20% (at 120Hz, 20℃)																																		
Leakage Current (at 20℃)	I = 0.01CV or 3 (μ A) whichever is greater (after 2 minutes) Where, C= rated capacitance in μ F. V = rated DC working voltage in V.																																		
Dissipation Factor (Tan δ at 120Hz, 20℃)	<table><tr><td>Rated Voltage</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>0.32</td><td>0.28</td><td>0.24</td><td>0.18</td><td>0.15</td><td>0.14</td></tr></table>							Rated Voltage	6.3	10	16	25	35	50	Tan δ (max)	0.32	0.28	0.24	0.18	0.15	0.14														
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Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. <table><tr><td colspan="2">Rated Voltage</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℃)/Z(+20℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(+20℃)</td><td>8</td><td>5</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table>							Rated Voltage		6.3	10	16	25	35	50	Impedance Ratio	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2	Z(-40℃)/Z(+20℃)	8	5	4	3	3	3					
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Load Life Test	<table><tr><td>Test Time</td><td colspan="6">2000 Hrs</td></tr><tr><td>Capacitance Change</td><td colspan="6">Within ±30% of initial value</td></tr><tr><td>Dissipation Factor</td><td colspan="6">Less than 300% of specified value</td></tr><tr><td>Leakage Current</td><td colspan="6">Within specified value</td></tr></table> * The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 1000 hrs at 105℃.							Test Time	2000 Hrs						Capacitance Change	Within ±30% of initial value						Dissipation Factor	Less than 300% of specified value						Leakage Current	Within specified value					
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Shelf Life Test	Test time: 1000 hrs; other items are the same as those for the load life test.																																		
Ripple Current & Frequency Multipliers	<table><tr><td colspan="2">Freq.(Hz)</td><td>50</td><td>120</td><td>1K</td><td>10K up</td></tr><tr><td rowspan="4">V.DC(V)</td><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 rowspan="2">50</td><td>0.1~0.33 μF</td><td>0.5</td><td>1.0</td><td>1.35</td><td>1.50</td></tr><tr><td>4.7~10 μF</td><td>0.7</td><td>1.0</td><td>1.35</td><td>1.50</td></tr></table>							Freq.(Hz)		50	120	1K	10K up	V.DC(V)	Under 16	0.8	1.0	1.15	1.25	25 ~ 35	0.8	1.0	1.25	1.40	50	0.1~0.33 μF	0.5	1.0	1.35	1.50	4.7~10 μF	0.7	1.0	1.35	1.50
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Other Standards	JIS C 5101-18																																		

DIAGRAM OF DIMENSIONS



Unit: mm

φD	L	A	B	C	W	P±0.2
4	5.7±0.3	4.3	4.3	2.0	0.5 to 0.8	1.0
5	5.7±0.3	5.3	5.3	2.3	0.5 to 0.8	1.5
6.3	5.7±0.3	6.3	6.3	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		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
μF	Contents	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
0.1	0R1											4x5.7	2
0.22	R22											4x5.7	3
0.33	R33											4x5.7	4
0.47	R47											4x5.7	5
1	010											4x5.7	10
2.2	2R2											4x5.7	16
3.3	3R3											4x5.7	18
4.7	4R7							4x5.7	13	4x5.7	15	5x5.7	22
10	100					4x5.7	16	5x5.7	23	5x5.7	25	6.3x5.7	30
22	220					5x5.7	30	6.3x5.7	38	6.3x5.7	50		
33	330					6.3x5.7	40	6.3x5.7	48				
47	470			6.3x5.7	43	6.3x5.7	50						
100	101	6.3x5.7	61										

Remark: VEL is the new series name, RVL is still effective.