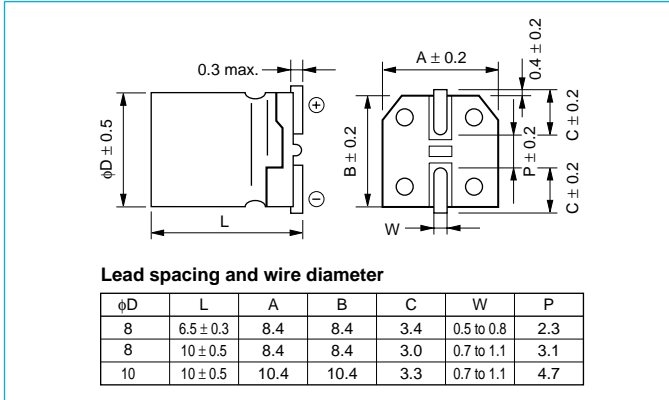


RV Vertical Chip Electrolytic Capacitors

Series RV Chip Aluminum Electrolytic Capacitors.

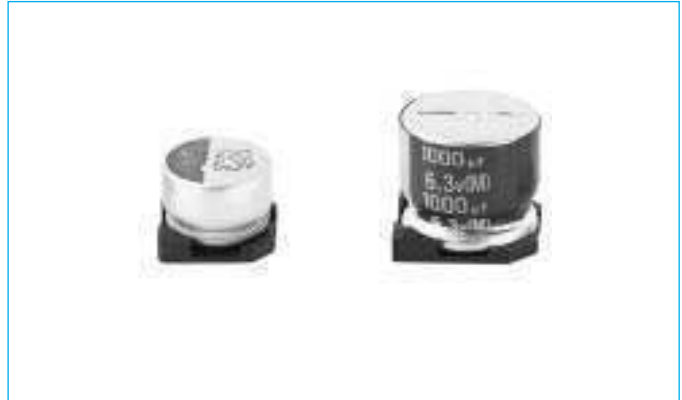
- For surface mount 85°C, large capacitance and series up to 1000µF.
- Carrier taping supplied.

Outline Drawing



Unit: mm

Photo



Chip Type

RV

Specifications

No.	Item	Performance																										
1	Temperature range (°C)	-40 to +85°C																										
2	Leakage current (µA)	Less than 0.01 CV or 3 whichever is larger (after two minutes) C: Capacitance (µF), V: Voltage (V) (20°C)																										
3	Capacitance tolerance (%)	±20 (20°C, 120 Hz)																										
4	Tangent of loss angle (tan δ)	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tan δ</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> <td>0.10</td> <td>0.10</td> </tr> </tbody> </table> <p>(20°C, 120 Hz)</p>	Rated voltage (V)	6.3	10	16	25	35	50	63	100	tan δ	0.28	0.24	0.20	0.14	0.12	0.10	0.10	0.10								
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5	Stability at low temperature	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance ratio</td> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>(120 Hz)</p>	Rated voltage (V)	6.3	10	16	25	35	50	63	100	Impedance ratio	Z-25°C/Z+20°C	4	3	2	2	2	2	2	Z-40°C/Z+20°C	8	5	4	3	3	3	3
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6	Endurance (85°C) (Applied ripple current)	<table border="1"> <tbody> <tr> <td>Test time</td> <td>2000 hrs</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> <tr> <td>Change in capacitance</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> </tbody> </table>	Test time	2000 hrs	Leakage current	Initial specified value or less	Change in capacitance	Within ±20% of initial value	tan δ	200% or less of initial specified value																		
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7	Max. storage temp. (85°C)	Test time 1000 hrs. Others have same as endurance. Voltage application treatment.																										
8	Applicable Standards	JIS C 5101-1, 5101-18 1998 (IEC 60384-1 1992, 60384-18 1993)																										

Coefficients of Frequency for Ripple Current

Frequency (Hz) \ Rated Voltage (V)	50 • 60	120	1 k	10 k • 100 k
6.3 to 16	0.80	1	1.15	1.25
25 to 35	0.80	1	1.25	1.40
50 to 63	0.80	1	1.35	1.50
100	0.70	1	1.35	1.50

Coefficients of Temperature for Ripple Current

Temperature (°C)	+70 or less	+85
Coefficients	1.35	1

RV Vertical Chip Electrolytic Capacitors

Case size by working voltage & capacitance (in mm)

(mm)

WV(V) Cap.(µF)	6.3	10	16	25	35	50	63	100
10								8 x 10
22						8 x 6.5	8 x 10	10 x 10
33					8 x 6.5	8 x 6.5	8 x 10	10 x 10
47				8 x 6.5	8 x 6.5	8 x 10	10 x 10	
68							10 x 10	
100		8 x 6.5	8 x 6.5	8 x 6.5	8 x 10	10 x 10		
220	8 x 6.5	8 x 6.5	8 x 10	8 x 10	10 x 10			
330	8 x 6.5	8 x 10	8 x 10	10 x 10				
470	8 x 10	10 x 10	10 x 10					
1000	10 x 10							

Standard Ratings

ELNA PART NO. / WV (V)	CAP. (µF)	SIZE (φ x L) (mm)	tan δ	ESR (Ω)	Ripple Current (mArms)
6.3 V					
RV-6V221MG68-R	220	8 x 6.5	0.28	2.1	155
RV-6V331MG68-R	330	8 x 6.5	0.28	1.4	155
RV-6V471MG10-R	470	8 x 10	0.28	0.99	252
RV-6V102MH10-R	1000	10 x 10	0.28	0.46	458
10 V					
RV-10V101MG68-R	100	8 x 6.5	0.24	4.0	155
RV-10V221MG68-R	220	8 x 6.5	0.24	1.8	155
RV-10V331MG10-R	330	8 x 10	0.24	1.2	252
RV-10V471MH10-R	470	10 x 10	0.24	0.85	458
16 V					
RV-16V101MG68-R	100	8 x 6.5	0.20	3.3	155
RV-16V221MG10-R	220	8 x 10	0.20	1.5	252
RV-16V331MG10-R	330	8 x 10	0.20	1.0	252
RV-16V471MH10-R	470	10 x 10	0.20	0.71	458
25 V					
RV-25V470MG68-R	47	8 x 6.5	0.14	4.9	155
RV-25V101MG68-R	100	8 x 6.5	0.14	2.3	155
RV-25V221MG10-R	220	8 x 10	0.14	1.1	252
RV-25V331MH10-R	330	10 x 10	0.14	0.70	458

ELNA PART NO. / WV (V)	CAP. (µF)	SIZE (φ x L) (mm)	tan δ	ESR (Ω)	Ripple Current (mArms)
35 V					
RV-35V330MG68-R	33	8 x 6.5	0.12	6.0	155
RV-35V470MG68-R	47	8 x 6.5	0.12	4.2	155
RV-35V101MG10-R	100	8 x 10	0.12	2.0	252
RV-35V221MH10-R	220	10 x 10	0.12	0.91	458
50 V					
RV-50V220MG68-R	22	8 x 6.5	0.10	7.5	155
RV-50V330MG68-R	33	8 x 6.5	0.10	5.0	155
RV-50V470MG10-R	47	8 x 10	0.10	3.5	252
RV-50V101MH10-R	100	10 x 10	0.10	1.7	458
63 V					
RV-63V220MG10-R	22	8 x 10	0.10	7.5	139
RV-63V330MG10-R	33	8 x 10	0.10	5.0	139
RV-63V470MH10-R	47	10 x 10	0.10	3.5	226
RV-63V680MH10-R	68	10 x 10	0.10	2.4	226
100 V					
RV-100V100MG10-R	10	8 x 10	0.10	16.6	94
RV-100V220MH10-R	22	10 x 10	0.10	7.5	189
RV-100V330MH10-R	33	10 x 10	0.10	5.0	189

Note: ESR 120 Hz at 20°C
Allowable Ripple Current 120 Hz at 85°C

Chip Type
RV