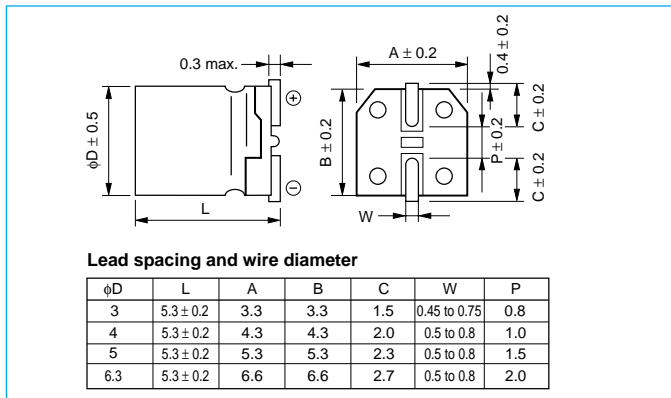


RV2 Vertical Chip Electrolytic Capacitors

Series RV2 Chip Aluminum Electrolytic Capacitors.

- For surface mount 85°C, 2000 hours guaranteed.
- Carrier taping supplied.

Outline Drawing



Unit: mm

Photo



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><tr><th colspan="2">Rated voltage (V)</th><th>4</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th></tr><tr><td rowspan="2">tan δ</td><td>φ 3</td><td>0.42</td><td>0.30</td><td>0.24</td><td>0.22</td><td>0.16</td><td>0.14</td><td>0.12</td></tr><tr><td>φ 4~φ 6.3</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> (20°C, 120 Hz)	Rated voltage (V)		4	6.3	10	16	25	35	50	tan δ	φ 3	0.42	0.30	0.24	0.22	0.16	0.14	0.12	φ 4~φ 6.3	0.42	0.28	0.24	0.20	0.14	0.12	0.10																			
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5	Stability at low temperature	<table><tr><th colspan="3">Rated voltage (V)</th><th>4</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th></tr><tr><td rowspan="4">Impedance ratio</td><td rowspan="2">φ 3</td><td>Z−25°C/Z+20°C</td><td>7</td><td>4</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>17</td><td>10</td><td>8</td><td>6</td><td>4</td><td>3</td><td>3</td></tr><tr><td rowspan="2">φ 4~φ 6.3</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> (120 Hz)	Rated voltage (V)			4	6.3	10	16	25	35	50	Impedance ratio	φ 3	Z−25°C/Z+20°C	7	4	3	2	2	2	2	Z−40°C/Z+20°C	17	10	8	6	4	3	3	φ 4~φ 6.3	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
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6	Endurance (85°C) (Applied ripple current)	<table><tr><td>Test time</td><td>2000 hrs (φ 3 is 1000hrs)</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 (4V:±30%)</td></tr><tr><td>tan δ</td><td>200% or less of initial specified value (4V:300%)</td></tr></table>	Test time	2000 hrs (φ 3 is 1000hrs)	Leakage current	Initial specified value or less	Change in capacitance	Within ±20% of initial value (4V:±30%)	tan δ	200% or less of initial specified value (4V:300%)																																					
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7	Max. storage temp. (85°C)	Test time 1000 hrs. Others have same as endurance in No. 6, Voltag 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)	50 • 60	120	1 k	10 k • 100 k
Rated Voltage (V)				
4 to 16	0.80	1	1.15	1.25
25 to 35	0.80	1	1.25	1.40
50	0.80	1	1.35	1.50

Coefficients of Temperature for Ripple Current

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

RV2 Vertical Chip Electrolytic Capacitors

Case size by working voltage & capacitance (in mm)

(mm)

WV(V) Cap.(μF)	4	6.3	10	16	25	35	50
0.1							3 x 5.3 4 x 5.3
0.22							3 x 5.3 4 x 5.3
0.33							3 x 5.3 4 x 5.3
0.47							3 x 5.3 4 x 5.3
1							3 x 5.3 4 x 5.3
2.2						3 x 5.3	4 x 5.3
3.3						3 x 5.3	4 x 5.3
4.7					3x5.3 4x5.3	4 x 5.3	5 x 5.3
10			4 x 5.3	3x5.3 4x5.3	5 x 5.3	5 x 5.3	6.3 x 5.3
22	3 x 5.3	4 x 5.3	5 x 5.3	5 x 5.3	6.3 x 5.3	6.3 x 5.3	
33	4 x 5.3	5 x 5.3	5 x 5.3	6.3 x 5.3	6.3 x 5.3		
47	4 x 5.3	5 x 5.3	6.3 x 5.3	6.3 x 5.3			
100	5 x 5.3	6.3 x 5.3	6.3 x 5.3	6.3 x 5.3			
220	6.3 x 5.3						

Standard Ratings

ELNA PART NO. / WV (V)	CAP. (μF)	SIZE (φ x L) (mm)	tan δ	ESR (Ω)	Ripple Current (mA rms)
4 V					
RV2-4V220MB55-R	22	3 x 5.3	0.42	32	14
RV2-4V330M-R	33	4 x 5.3	0.42	21	31
RV2-4V470M-R	47	4 x 5.3	0.42	15	37
RV2-4V101M-R	100	5 x 5.3	0.42	7.0	63
RV2-4V221M-R	220	6.3 x 5.3	0.42	3.2	110
6.3 V					
RV2-6V220M-R	22	4 x 5.3	0.28	21	31
RV2-6V330M-R	33	5 x 5.3	0.28	14	44
RV2-6V470M-R	47	5 x 5.3	0.28	10	52
RV2-6V101M-R	100	6.3 x 5.3	0.28	5.0	89
10 V					
RV2-10V100M-R	10	4 x 5.3	0.24	40	23
RV2-10V220M-R	22	5 x 5.3	0.24	18	39
RV2-10V330M-R	33	5 x 5.3	0.24	12	48
RV2-10V470M-R	47	6.3 x 5.3	0.24	8.5	67
RV2-10V101M-R	100	6.3 x 5.3	0.24	4.0	98
16 V					
RV2-16V100MB55-R	10	3 x 5.3	0.22	37	18
RV2-16V100M-R	10	4 x 5.3	0.20	33	26
RV2-16V220M-R	22	5 x 5.3	0.20	15	44
RV2-16V330M-R	33	6.3 x 5.3	0.20	10	63
RV2-16V470M-R	47	6.3 x 5.3	0.20	7.1	75
RV2-16V101MS-R	100	6.3 x 5.3	0.20	3.3	103
25 V					
RV2-25V4R7MB55-R	4.7	3 x 5.3	0.16	57	11

ELNA PART NO. / WV (V)	CAP. (μF)	SIZE (φ x L) (mm)	tan δ	ESR (Ω)	Ripple Current (mA rms)
RV2-25V4R7M-R	4.7	4 x 5.3	0.14	49	19
RV2-25V100M-R	10	5 x 5.3	0.14	23	32
RV2-25V220M-R	22	6.3 x 5.3	0.14	11	55
RV2-25V330M-R	33	6.3 x 5.3	0.14	7.0	67
35 V					
RV2-35V2R2MB55-R	2.2	3 x 5.3	0.14	106	8
RV2-35V3R3MB55-R	3.3	3 x 5.3	0.14	70	9
RV2-35V4R7M-R	4.7	4 x 5.3	0.12	42	20
RV2-35V100M-R	10	5 x 5.3	0.12	20	34
RV2-35V220M-R	22	6.3 x 5.3	0.12	9.1	59
50 V					
RV2-50VR10MB55-R	0.1	3 x 5.3	0.12	1990	1
RV2-50VR10M-R	0.1	4 x 5.3	0.10	1660	3
RV2-50VR22MB55-R	0.22	3 x 5.3	0.12	905	2
RV2-50VR22M-R	0.22	4 x 5.3	0.10	754	5
RV2-50VR33MB55-R	0.33	3 x 5.3	0.12	603	3
RV2-50VR33M-R	0.33	4 x 5.3	0.10	503	6
RV2-50VR47MB55-R	0.47	3 x 5.3	0.12	424	4
RV2-50VR47M-R	0.47	4 x 5.3	0.10	353	7
RV2-50V010MB55-R	1	3 x 5.3	0.12	199	6
RV2-50V010M-R	1	4 x 5.3	0.10	166	10
RV2-50V2R2M-R	2.2	4 x 5.3	0.10	75	15
RV2-50V3R3M-R	3.3	4 x 5.3	0.10	50	19
RV2-50V4R7M-R	4.7	5 x 5.3	0.10	35	26
RV2-50V100M-R	10	6.3 x 5.3	0.10	17	44

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