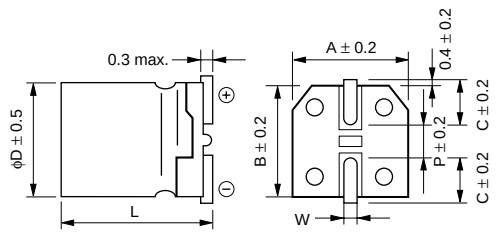
ELNA®

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



Lead spacing and wire diameter

φD	L	A	B	C	W	P
8	6.5 ± 0.3	8.4	8.4	3.4	0.5 to 0.8	2.3
8	10 ± 0.5	8.4	8.4	3.0	0.7 to 1.1	3.1
10	10 ± 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7

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)	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 (20°C, 120 Hz)
5	Stability at low temperature	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 / 2 Impedance ratio Z–40°C/Z+20°C: 8 / 5 / 4 / 3 / 3 / 3 / 3 / 3 (120 Hz)
6	Endurance (85°C) (Applied ripple current)	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
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

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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

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