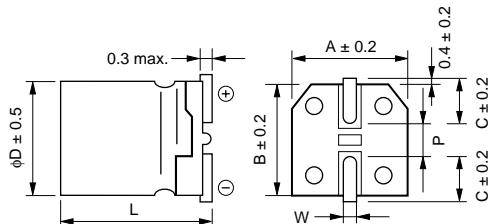


RVK Vertical Chip Electrolytic Capacitors

Series RVK Chip Aluminum Electrolytic Capacitors.

- For surface mount 125°C, 1250 hours guaranteed.
- Carrier taping supplied.

Outline Drawing



Lead spacing and wiring diameter

ϕD	L	A	B	C	W	P
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 +125°C														
2	Leakage current (μA)	Less than 0.02 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 ($\tan \delta$)	Rated voltage (V)	10	16	25	35	50									
		$\tan \delta$	0.28	0.26	0.24	0.20	0.19									
			(63) (20°C, 120 Hz)													
5	Stability at low temperature	Rated voltage (V)	10	16	25	35	50									
		Impedance ratio	Z-25°C/Z+20°C	3	3	3	3									
			Z-40°C/Z+20°C	5	5	5	5									
			(63) (120 Hz)													
6	Endurance (Applied ripple current)	Test temp.	125°C		105°C											
		Test time	$\phi 0: 1250 \text{ hrs}$ $\phi 8: 1000 \text{ hrs}$		$\phi 0: 5000 \text{ hrs}$ $\phi 8: 4000 \text{ hrs}$											
		Leakage current	Initial specified value or less													
		Change in capacitance	Within $\pm 30\%$ of initial value													
		$\tan \delta$	300% or less of initial specified value													
7	Max. storage temp.	Test temp.	125°C		105°C											
		Test time	500 hrs		1000 hrs											
		Leakage current	Initial specified value or less													
		Change in capacitance	Within $\pm 20\%$ of initial value													
		$\tan \delta$	200% or less of initial specified value													
8	Applicable Standards	Pretreatment performed (JIS C 5102).														
		JIS C 5102 and JIS C 5141.														

Coefficients of Frequency for Ripple Current

Frequency (Hz) Rated Voltage (V)	120	1K	10 k	100 k
10 to 63	0.77	0.88	0.96	1

Coefficients of Temperature for Ripple Current

Temperature (°C)	+85 or less	+105	+125
Coefficients	2.05	1.60	1

RVK Vertical Chip Electrolytic Capacitors

Case size by working voltage & capacitance (in mm)

(mm)

WV(V) Cap.(μ F)	10	16	25	35	50	63
10					8x10 / 10x10	
22				10 x 10	8x10 / 10x10	8x10 / 10x10
33				10 x 10	8x10 / 10x10	
47			10 x 10	8x10 / 10x10		
100		10 x 10	8x10 / 10x10	10 x 10		
220	8x10 / 10x10	10 x 10				
330	10 x 10					

Standard Ratings

ELNA PART NO. / WV (V)	CAP. (μ F)	SIZE (ϕ x L) (mm)	tan δ	ESR (Ω)	IMPEDANCE (Ω)	Rip Cur. (mArms)
10 V						
RVK-10V221MG10-R	220	8 x 10	0.28	0.68	0.68	60
RVK-10V221MH10-R	220	10 x 10	0.28	0.58	0.58	107
RVK-10V331MH10-R	330	10 x 10	0.28	0.55	0.55	111
16 V						
RVK-16V101MH10-R	100	10 x 10	0.26	0.58	0.58	102
RVK-16V221MH10-R	220	10 x 10	0.26	0.55	0.55	107
25 V						
RVK-25V470MH10-R	47	10 x 10	0.24	0.58	0.58	70
RVK-25V101MG10-R	100	8 x 10	0.24	0.68	0.68	60
RVK-25V101MH10-R	100	10 x 10	0.24	0.55	0.55	102
35 V						
RVK-35V220MH10-R	22	10 x 10	0.20	0.61	0.61	48
RVK-35V330MH10-R	33	10 x 10	0.20	0.60	0.60	58

ELNA PART NO. / WV (V)	CAP. (μ F)	SIZE (ϕ x L) (mm)	tan δ	ESR (Ω)	IMPEDANCE (Ω)	Rip Cur. (mArms)
RVK-35V470MG10-R	47	8 x 10	0.20	0.68	0.68	55
RVK-35V470MH10-R	47	10 x 10	0.20	0.58	0.58	70
RVK-35V101MH10-R	100	10 x 10	0.20	0.55	0.55	102
50 V						
RVK-50V100MG10-R	10	8 x 10	0.19	0.80	0.80	38
RVK-50V100MH10-R	10	10 x 10	0.19	0.65	0.65	45
RVK-50V220MG10-R	22	8 x 10	0.19	0.80	0.80	38
RVK-50V220MH10-R	22	10 x 10	0.19	0.65	0.65	48
RVK-50V330MG10-R	33	8 x 10	0.19	0.80	0.80	40
RVK-50V330MH10-R	33	10 x 10	0.19	0.60	0.60	58
63 V						
RVK-63V220MG10-R	22	8 x 10	0.18	1.00	1.00	33
RVK-63V220MH10-R	22	10 x 10	0.18	0.67	0.67	48

Note: ESR, Impedance 100 kHz at 20°C
Allowable Ripple Current 100 kHz at 125°C