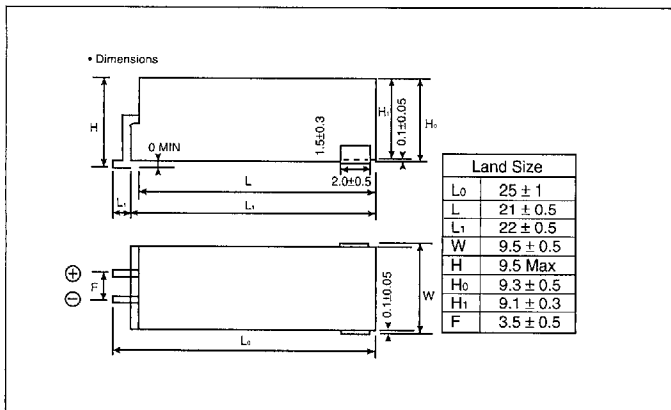


RYK Horizontal Chip Electrolytic Capacitors

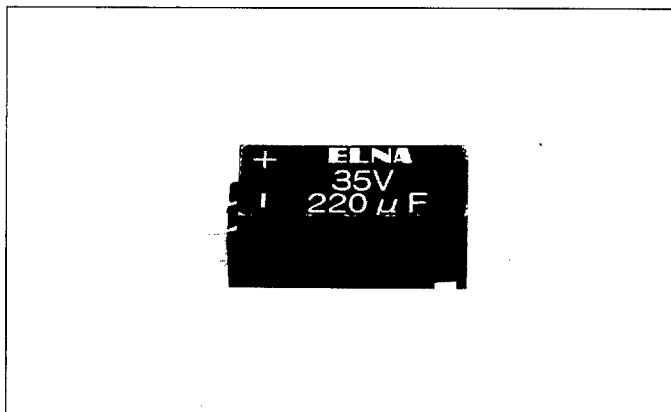
Series RYK Chip Aluminum Electrolytic Capacitors.

- 125°C high temperature surface mount, guaranteed 1000 hours.
- Highly resistant to vibration.
- Available in horizontal configurations only.
- Carrier taping supplied.

Outline Drawing



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 δ)	<table><tr><td>Rated voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td></tr><tr><td>tan δ</td><td>0.3</td><td>0.28</td><td>0.26</td><td>0.24</td><td>0.20</td><td>0.19</td><td>0.18</td></tr></table> (20°C, 120 Hz)	Rated voltage (V)	6.3	10	16	25	35	50	63	tan δ	0.3	0.28	0.26	0.24	0.20	0.19	0.18							
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tan δ	0.3	0.28	0.26	0.24	0.20	0.19	0.18																		
5	Stability at low temperature	<table><tr><td>Rated voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td></tr><tr><td rowspan="2">Impedance ratio</td><td>Z-25°C/Z+20°C</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr><tr><td>Z-40°C/Z+20°C</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td></tr></table> (120 Hz)	Rated voltage (V)	6.3	10	16	25	35	50	63	Impedance ratio	Z-25°C/Z+20°C	3	3	3	3	3	3	Z-40°C/Z+20°C	5	5	5	5	5	5
Rated voltage (V)	6.3	10	16	25	35	50	63																		
Impedance ratio	Z-25°C/Z+20°C	3	3	3	3	3	3																		
	Z-40°C/Z+20°C	5	5	5	5	5	5																		
6	Endurance (125°C) (Applied ripple current)	<table><tr><td>Test time</td><td>1000 hrs</td></tr><tr><td>Leakage current</td><td>Initial specified value or less</td></tr><tr><td>Change in capacitance</td><td>Within ±30% of initial value</td></tr><tr><td>tan δ</td><td>300% or less of initial specified value</td></tr></table>	Test time	1000 hrs	Leakage current	Initial specified value or less	Change in capacitance	Within ±30% of initial value	tan δ	300% or less of initial specified value															
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7	Max. storage temp. (125°C)	<table><tr><td>Test time</td><td>500 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></table> Pretreatment performed (JIS C 5102).	Test time	500 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															
Test time	500 hrs																								
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8	Applicable Standards	JIS C 5102 and JIS C 5141.																							

Coefficients of Frequency for Ripple Current

Frequency (Hz)	120	1 K	10 k	100 k
Rated Voltage (V)				
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

RYK Horizontal Chip Electrolytic Capacitors

Case size by working voltage & capacitance (in mm)

(mm)

WV(V) Cap.(μF)	6.3	10	16	25	35	50	63
82							25 x 9.5 X 9.5
100						25 x 9.5 X 9.5	
220					25 x 9.5 X 9.5		
270				25 x 9.5 X 9.5			
470			25 x 9.5 X 9.5				
560		25 x 9.5 X 9.5					
820	25 x 9.5 X 9.5						

Standard Ratings

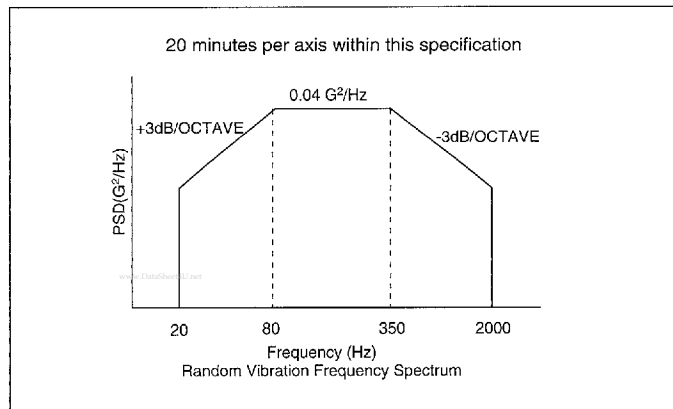
ELNA PART NO. / WV (V)	CAP. (μF)	SIZE (LxHxW) (mm)	tan δ	IMPEDANCE (Ω)	Ripple Current (mA rms)
6.3 V					
RYK-6V821MG5-FL	820	25 x 9.5 x 9.5	0.30	0.30	230
10 V					
RYK-10V561MG5-FL	560	25 x 9.5 x 9.5	0.28	0.30	230
16 V					
RYK-16V471MG5-FL	470	25 x 9.5 x 9.5	0.26	0.30	230
25 V					
RYK-25V271MG5-FL	270	25 x 9.5 x 9.5	0.24	0.30	230

ELNA PART NO. / WV (V)	CAP. (μF)	SIZE (LxHxW) (mm)	tan δ	IMPEDANCE (Ω)	Ripple Current (mA rms)
35 V					
RYK-35V221MG5-FL	220	25 x 9.5 x 9.5	0.20	0.30	230
50 V					
RYK-50V101MG5-FL	100	25 x 9.5 x 9.5	0.19	0.35	184
63 V					
RYK-63V820MG5-FL	82	25 x 9.5 x 9.5	0.19	0.37	180

Note: Impedance 100 kHz at 20°C.

Allowable Ripple Current 100 kHz at 125°C

Vibration Test Condition



Recommended land pattern size.

