

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

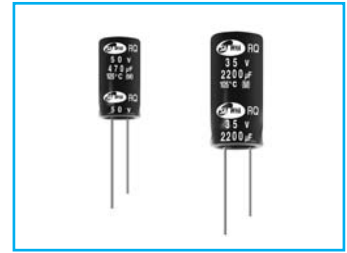


NEW

RQ Extremely Low Impedance Series



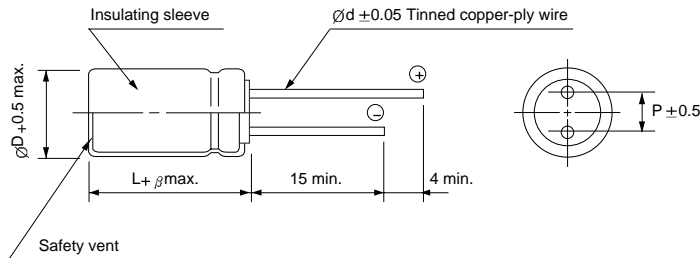
- Low impedance compared with WD series
- Operating temperature $-55 \sim +105^{\circ}\text{C}$
- Enabled high ripple current by a reduction of impedance at high frequency
- Ideally suited for use in switching power supply, mother board



Item	Characteristics						
Operating temperature range	$-55 \sim +105^{\circ}\text{C}$						
Leakage current max.	$I = 0.01CV$ or $3\mu\text{A}$ whichever is greater (after 2 minutes)						
Capacitance tolerance	$\pm 20\%$ (20° , 120Hz)						
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3	10	16	25	35	50
	$\tan\delta$	0.22	0.19	0.16	0.14	0.12	0.10
Low temperature characteristics (Impedance ratio at 120Hz)	WV	6.3	10	16 ~ 25	35 ~ 50		
	$Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C})$	3	3	2	2		
	$Z(-55^{\circ}\text{C})/Z(+20^{\circ}\text{C})$	4	4	3	2		
Load life (after application of the rated voltage for 5000 hours at 105°C)	Leakage current	Less than specified value					
	Capacitance change	Within $\pm 20\%$ of initial value					
	$\tan\delta$	Less than 200% of specified value					
	($\varnothing 5, 6.3$: 2000 hours, $\varnothing 8$: 3000 hours, $\varnothing D \geq 10$: 5000 hours)						
Shelf life (at 105°)	After 1000 hours no load test, leakage current, capacitance and $\tan\delta$ are same as load life value.						

DRAWING

Unit : mm



$\varnothing D$	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
$\varnothing d$	0.5	0.5	0.6	0.6	0.6	0.8	0.8
β	1.0			2.0			

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RO series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	6.3			10			16		
	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz
47							5 × 11	0.800	175
68							6.3 × 11	0.420	190
100	5 × 11	0.80	175	5 × 11	0.420	190	6.3 × 11	0.350	290
150	6.3 × 11	0.42	280	6.3 × 11	0.250	290	6.3 × 11	0.220	300
220	6.3 × 11	0.35	290	6.3 × 11	0.220	300	8 × 11.5	0.110	560
330	6.3 × 11	0.25	400	8 × 11.5	0.140	560	8 × 11.5	0.085	730
470	8 × 11.5	0.110	560	8 × 11.5	0.085	730	10 × 12.5	0.085	800
680	10 × 12.5	0.095	730	10 × 12.5	0.085	800	10 × 16	0.062	1050
1000	10 × 12.5	0.080	800	10 × 16	0.068	1050	10 × 20	0.039	1450
1500	10 × 20	0.044	1250	10 × 20	0.053	1450	12.5 × 20	0.038	1655
2200	12.5 × 20	0.040	1450	12.5 × 20	0.038	1655	16 × 25	0.030	1945
3300	12.5 × 20	0.038	1655	12.5 × 31.5	0.029	1945	16 × 25	0.022	2100
	12.5 × 20	0.038	1655	12.5 × 31.5	0.029	1945	16 × 31.5	0.022	2510
4700	16 × 25	0.025	2100	16 × 25	0.022	2510	16 × 31.5	0.018	3010
6800	16 × 25	0.022	2555	16 × 31.5	0.018	3010	18 × 35.5	0.015	3680
10000	16 × 31.5	0.018	3150	16 × 35.5	0.015	3680			
15000	18 × 35.5	0.015	3680						

WV Item μF	25			35			50		
	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	$\varnothing\text{D} \times \text{L}$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz
4.7							5 × 11	2.00	92
10							5 × 11	1.40	125
22				5 × 11	0.42	175	6.3 × 11	0.70	170
33	5 × 11	1.00	150	5 × 11	0.35	190	6.3 × 11	0.60	260
47	5 × 11	0.80	190	6.3 × 11	0.30	285	8 × 11.5	0.43	300
68	6.3 × 11	0.35	250	8 × 11.5	0.22	300	8 × 11.5	0.23	485
100	6.3 × 11	0.22	300	8 × 11.5	0.11	560	10 × 12.5	0.180	500
150	8 × 11.5	0.11	560	8 × 11.5	0.085	590	10 × 16	0.160	650
220	8 × 11.5	0.085	650	10 × 12.5	0.085	800	10 × 16	0.090	900
							10 × 20	0.090	1030
330	10 × 12.5	0.069	800	10 × 16	0.044	1050	12.5 × 20	0.072	1125
				10 × 20	0.044	1250			
470	10 × 16	0.062	1050	10 × 20	0.044	1450	12.5 × 25	0.045	1832
680	10 × 20	0.039	1450	12.5 × 20	0.038	1655	12.5 × 25	0.045	2215
							16 × 25	0.034	2285
1000	12.5 × 20	0.038	1655	12.5 × 25	0.030	1945	16 × 31.5	0.025	2700
1500	16 × 25	0.025	2100	16 × 25	0.025	2100	16 × 35.5	0.024	2790
2200	16 × 25	0.022	2100	16 × 31.5	0.022	3010			
	16 × 31.5	0.022	2510						
3300	16 × 31.5	0.018	3010	18 × 35.5	0.015	3680			
4700	18 × 35.5	0.015	3680						