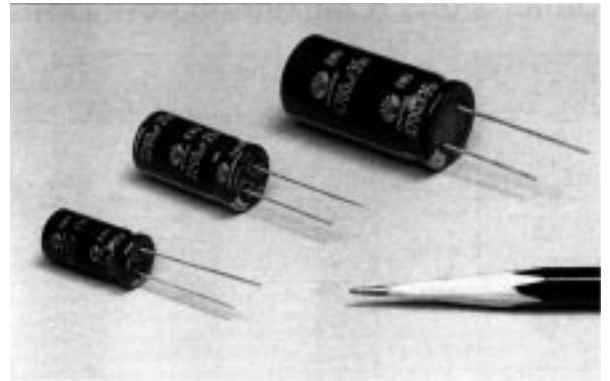


# RMU SERIES

## ALUMINUM ELECTROLYTIC CAPACITORS 105°C, Miniature, Radial Leads

### ■ Features

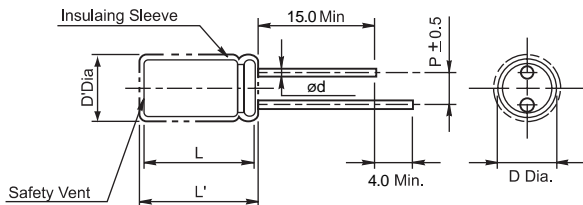
- 105°C, Miniature, radial
- Wide operating temperature range
- High CV (Smaller than RUS)
- Load life of 1000 hours at 105°C



### ■ Specifications

Item	Performance Characteristics										
<b>Operating temperature range</b>	-40°C ~ +105°C			-40°C ~ +105°C				-25°C ~ +105°C			
<b>Rated working voltage range</b>	6.3V ~ 100V			160V ~ 250V				350V ~ 450V			
<b>Nominal capacitance range</b>	0.47μF ~ 22000μF, ± 20%(at 20°C, 120Hz)										
<b>D.C Leakage current(at 20°C)</b>	The following specifications shall be satisfied when the rated voltage is applied for the required time.										
	I ≤ 0.01CV + 3μA (2 min)			I ≤ 0.01CV + 10μA (3 min)				I ≤ 0.02CV + 30μA (5 min)			
	Where I = Leakage current(μA), C=Nominal capacitance(μF), V=Rated voltage(V)										
<b>Tan δ(max., at 20°C, 120Hz)</b>	W.V(V)	6.3	10	16	25	35	50	63	100	160~250	350~450
	Tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.20
	When capacitance is over 1000μF, Tan δ shall be added 0.02 to the listed value with increase of every each 1000μF.										
<b>Characteristics at low temperature(max.) (impedance ratio at 120Hz)</b>	W.V(V)	6.3	10	16	25	35	50~100		160~250		350~450
	Z-25°C/Z20°C	5	4	3	2	2	2		3		6
	Z-40°C/Z20°C	10	8	6	4	3	3		4		-
<b>Load life</b>	After applying rated working voltage for 1000 hours at +105°C, and then being stabilized at +20°C, capacitors shall meet following limits.										
	Capacitance change					Within ± 20% of initial measured value					
	Tan δ					≤ 200% of initial specified value					
	Leakage current					≤ Initial specified value					
<b>Shelf life</b>	After storage for 1000 hours at +105°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits.										
	Capacitance change					Within ±20% of initial measured value					
	Tan δ					≤ 150% of initial specified value					
	Leakage current					≤ Initial specified value					

### ■ Case sizes and Dimensions



#### • Standard lead style

øD	5.0	6.3	8.0	10.0	13.0	16.0	18.0
P	2.0	2.5	3.5	5.0		7.5	
ød	0.5		0.6			0.8	

D'=[D+0.5]Max.

L'=[L+1.0]max. at D ≤ 8.0

L' = [L+1.5]Max. at D ≥ 10.0

### ■ Ripple current coefficient

#### • Frequency

Cap(μF)	Freq(Hz)	50	120	400	1K	10K	50~100K
Cap ≥ 10		0.8	1	1.30	1.45	1.65	1.70
10 < Cap ≤ 100		0.8	1	1.23	1.36	1.48	1.53
100 < Cap ≤ 1000		0.8	1	1.16	1.25	1.35	1.38
1000 < Cap		0.8	1	1.11	1.17	1.25	1.28

#### • Temperature

Temperature Factor	≤ 70°C	85°C	105°C
	1.95	1.65	1.0

# RMU SERIES

## Dimensions & Maximum permissible ripple current [mA(rms) at 105°C, 120Hz]

 $\varnothing D \times L$ (mm)

W.V(V) Cap(μF)	6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)		100(2A)	
	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>
0.47											5x11	7				
1											5x11	14				
2.2											5x11	23				
3.3											5x11	27				
4.7											5x11	32			5x11	34
10											5x11	46			6.3x11	52
22											5x11	70	5x11	73	6.3x11	89
33											5x11	88	6.3x11	108	8x11.5	123
47							5x11	84	5x11	91	6.3x11	112	6.3x11	126	10x12.5	182
100					5x11	113	6.3x11	137	6.3x11	149	8x11.5	202	10x12.5	220	10x20	305
220	5x11	144	5x11	153	6.3x11	190	8x11.5	255	8x11.5	270	10x12.5	343	10x16	407	13x20	540
330	6.3x11	201	6.3x11	204	8x11.5	274	8x11.5	306	10x12.5	372	10x16	460	10x20	520	13x25	670
470	6.3x11	233	6.3x11	248	8x11.5	328	10x12.5	423	10x16	488	10x20	583	13x20	740	16x25	921
680	8x11.5	340	8x11.5	383	10x12.5	429	10x16	556	10x20	618	13x20	820	13x25	956	16x35.5	1230
1000	8x11.5	405	10x12.5	496	10x16	585	10x20	729	13x20	920	13x25	1096	16x25	1230	18x40	1480
1500	10x16	569	10x16	653	10x20	720	13x20	911	13x25	1092	16x31.5	1279	16x35.5	1500		
2200	10x20	760	10x20	820	13x20	957	13x25	1173	16x25	1380	16x35.5	1660	18x35.5	1820		
3300	10x20	885	13x20	1070	13x25	1244	16x25	1486	16x35.5	1770	18x35.5	2010				
4700	13x20	1166	13x25	1310	16x25	1520	16x31.5	1835	18x35.5	2160						
6800	13x25	1410	16x25	1626	16x31.5	1904	18x35.5	2254								
10000	16x25	1687	16x35.5	2060	18x35.5	2315										
15000	16x35.5	2100	18x35.5	2360												
22000	18x40	2500														

W.V(V) Cap(μF)	160(2C)		200(2D)		250(2E)		350(2V)		400(2G)		450(2W)	
	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>	SIZE	I <sub>r</sub>
1.0	6.3x11	11	6.3x11	11	6.3x11	12	6.3x11	12	8x11.5	12	8x11.5	11
2.2	6.3x11	19	6.3x11	19	6.3x11	20	8x11.5	24	8x11.5	24	10x12.5	23
3.3	6.3x11	27	6.3x11	27	8x11.5	31	8x11.5	32	10x12.5	36	10x12.5	34
4.7	6.3x11	33	8x11.5	39	8x11.5	39	10x12.5	46	10x16	46	10x16	42
10	10x12.5	66	10x12.5	69	10x12.5	69	10x16	75	10x20	78	13x20	76
22	10x16	112	10x16	112	10x20	120	13x20	128	13x25	140	13x25	138
33	10x20	142	10x20	150	13x20	165	13x25	183	16x25	195	16x25	190
47	13x20	198	13x20	202	13x25	220	16x25	232	16x25	245	16x35.5	240
100	13x25	325	16x25	345	16x31.5	375	16x35.5	382	18x40	395		
220	16x31.5	570	18x35.5	585	18x40	600						
330	18x35.5	754										

 I<sub>r</sub> : Maximum permissible ripple current [mA(rms) at 105°C, 120Hz]