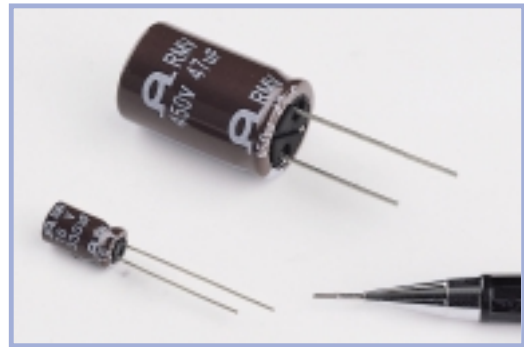


## RMV SERIES

105°C, Sub-miniature, Radial Leads

### Features

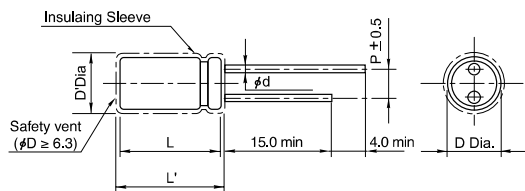
- 105°C, Sub-miniature, Radial
- Wide Operating Temperature Range
- High CV (Smaller than RMU)
- Load Life of 1000 hours at 105°C



### 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 ~ 22,000 μF, ± 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 or 3μA (2min)			I ≤ 0.01CV + 10μA (3min)				I ≤ 0.02CV + 30μA (5min)			
	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 1000 μF.										
<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/± 20°C	5	4	3	2	2	2	3	6		
	Z - 40°C/± 20°C	10	8	6	4	3	3	6	-		
<b>Load life</b>	After applying rated working voltage for 1000hrs at +105°C and then being stabilized at +20°C, capacitors shall meet following limits.										
	Capacitance change	Within ± 20% of the initial measured value									
	Tan δ	≤ 200% of the initial specified value									
	Leakage current	≤ The initial specified value									
<b>Shelf life</b>	After storage for 1000hrs at +105°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits.										
	Capacitance change	Within ± 20% of the initial measured value									
	Tan δ	≤ 150% of the initial specified value									
	Leakage current	≤ The initial specified value									

### Dimensions



#### • Standard lead style

D	5.0	6.3	8.0	10.0	12.5	16.0	18.0
P	2.0	2.5	3.5	5.0		7.5	
d	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	1.0	1.30	1.45	1.65	1.70
10 < Cap ≤ 100	0.8	1.0	1.23	1.36	1.48	1.53
100 < Cap ≤ 1000	0.8	1.0	1.16	1.25	1.35	1.38
1000 < Cap	0.8	1.0	1.11	1.17	1.25	1.28

#### • Temperature

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

## RMV SERIES

### Dimensions & Maximum Permissible Ripple Current[mA(rms) at 105°C, 120Hz]

D x L(mm)

W.V(V) Cap(μF)	6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)	
	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	6		
1.0											5x11	12		
2.2											5x11	20		
3.3											5x11	25		
4.7											5x11	29		
10											5x11	43		
22											5x11	68	5x11	75
33											5x11	92	6.3x11	100
47									5x11	99	6.3x11	111	6.3x11	125
100							5x11	129	6.3x11	150	8x11.5	186	8x11.5	207
220			5x11	164	6.3x11	209	6.3x11	207	8x11.5	250	10x12.5	307	10x16	357
330			6.3x11	232	6.3x11	239	8x11.5	295	10x12.5	350	10x16	429	10x20	500
470			6.3x11	275	8x11.5	321	10x12.5	411	10x16	507	10x20	564	12.5x20	643
1000	8x11.5	441	10x12.5	471	10x12.5	514	10x16	625	12.5x20	821	12.5x25	964	16x25	1064
2200	10x16	686	10x16	786	10x20	750	12.5x25	1143	16x25	1321	16x31.5	1429	18x35.5	1679
3300	10x20	964	12.5x20	1079	12.5x25	1264	16x25	1464	16x31.5	1550	18x35.5	1786		
4700	12.5x20	1150	12.5x25	1357	16x25	1543	16x25	1607	16x35.5	1786				
6800	12.5x25	1407	16x25	1643	16x25	1707	16x35.5	1936	18x40	2000				
10000	16x25	1643	16x31.5	1900	16x35.5	1964	18x40	2079						
15000	16x31.5	2050	16x35.5	2150	18x40	2300								
22000	18x35.5	2593	18x40	2679										

General

W.V(V) Cap(μF)	100(2A)		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>	SIZE	I <sub>R</sub>
0.47	5x11	8			6.3x11	11					6.3x11	9		
1.0	5x11	15			6.3x11	16					6.3x11	14		
2.2	5x11	21			6.3x11	24					8x11.5	26	8x11.5	20
3.3	5x11	29			6.3x11	30	6.3x11	29	6.3x11	21	8x11.5	34	10x12.5	29
4.7	5x11	32			6.3x11	37	6.3x11	36	8x11.5	31	10x12.5	43	10x12.5	34
10	5x11	54	8x11.5	61	8x11.5	61	10x12.5	71	10x12.5	39	10x16	68	10x20	64
22	6.3x11	94	10x12.5	96	10x16	107	10x20	114	12.5x20	64	12.5x25	143	12.5x25	107
33	8x11.5	132	10x16	132	10x20	143	10x20	143	12.5x25	114	16x25	171	16x25	143
47	8x11.5	150	10x20	157	12.5x20	193	12.5x20	193	16x25	157	16x25	221	16x31.5	186
68	8x11.5	196	12.5x20	257	12.5x25	264	16x25	286	16x31.5	221	16x31.5	286	18x35.5	214
100	10x16	243	12.5x25	329	16x25	336	16x25	336	16x35.5	300	18x35.5	343	18x40	221
220	12.5x20	407	16x31.5	425	16x35.5	507	18x35.5	514						
330	12.5x25	571	18x35.5	621	18x40	700								
470	16x25	750	18x40	857										
1000	18x31.5	1071												

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