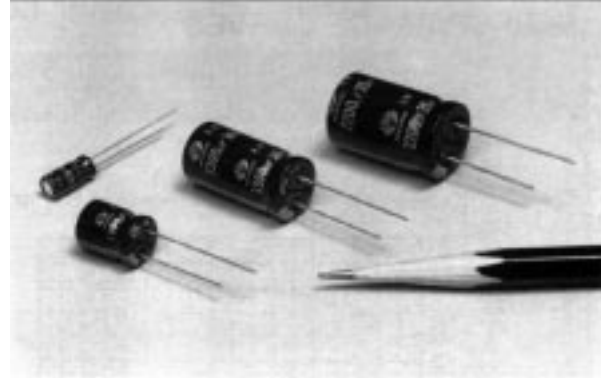


RM SERIES

ALUMINUM ELECTROLYTIC CAPACITORS 85°C, Miniature, Radial Leads

■ Features

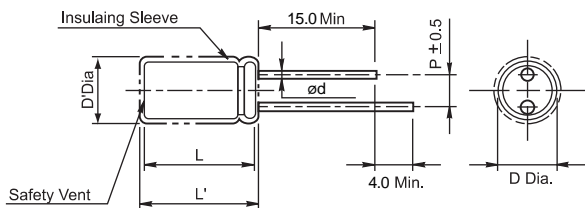
- 85°C, Miniature, Radial
- High CV (Smaller than RSS)
- Ideal for automatic insertion
- Load life of 2000 hours at 85°C



■ Specifications

Item	Performance Characteristics										
Operating temperature range	-40°C ~ +85°C			-40°C ~ +85°C				-25°C ~ +85°C			
Rated working voltage range	6.3V ~ 100V			160V ~ 250V				350 V ~ 450V			
Nominal capacitance range	0.47μF ~ 22000μF, ±20%(at 20°C, 120Hz)										
D.C Leakage current(at 20°C)	The following specifications shall be satisfied when the rated voltage is applied for the required time										
	I ≤ 0.01CV or 3μA (2min) Whichever is greater			I ≤ 0.01CV + 10μA (3min)				I ≤ 0.02CV + 30μA (3min)			
Where I = Leakage current(μA) C= Nominal capacitance (μF) V= Rated voltage (V)											
Tan δ(max., at 20°C, 120Hz)	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	0.20	0.20
When capacitance is over 1000μF, Tan δ shall be added 0.02 to the listed value with increase of every each 1000μF.											
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	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	12	10	8	5	4	3		5	-	
Load life	After applying rated working voltage for 2000 hours at +85°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					
Shelf life	After storage for 1000 hours at +85°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	50		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	≤ 60°C	70°C	85°C
Factor	1.65	1.37	1.0

RM SERIES

Dimensions & Maximum permissible ripple current [mA(rms) at 85°C, 120Hz]

øD x 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 _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r
0.47												5x11	16			
1.0												5x11	20			
2.2												5x11	32			
3.3												5x11	37			
4.7												5x11	44			5x11 47
10												5x11	65			6.3x11 73
22												5x11	97	5x11 102	6.3x11 122	
33												5x11	120	6.3x11 148	8x11.5 169	
47							5x11 120		5x11 130		6.3x11 153	6.3x11 173	10x12.5 255			
100					5x11 155	6.3x11 195	6.3x11 205	8x11.5 278	10x12.5 305	10x20 424						
220	5x11 200	5x11 210	6.3x11 260	8x11.5 350	8x11.5 375	10x12.5 470	10x16 566	13x20 740								
330	6.3x11 275	6.3x11 280	8x11.5 385	8x11.5 425	10x12.5 517	10x16 634	10x20 705	13x25 890								
470	6.3x11 310	6.3x11 330	8x11.5 460	10x12.5 587	10x16 678	10x20 793	13x20 1010	16x25 1270								
680	8x11.5 470	8x11.5 510	10x12.5 675	10x16 784	10x20 896	13x20 1187	13x25 1372	16x35.5 1710								
1000	8x11.5 550	10x12.5 680	10x16 836	10x20 1075	13x20 1340	13x25 1590	16x31.5 1854	16x35.5 2150								
2200	10x16 780	10x16 897	13x20 1154	13x20 1330	13x25 1680	16x25 1980	16x35.5 2370	18x35.5 2630								
3300	10x20 1040	13x20 1515	13x25 1728	16x25 2064	16x35.5 2525	18x35.5 2864										
4700	13x20 1620	13x25 1901	16x25 2170	16x31.5 2585	18x35.5 3090											
6800	13x25 2020	16x25 2324	16x31.5 2720	18x35.5 3220												
10000	16x25 2410	16x35.5 2950	18x35.5 3350													
15000	16x35.5 3150															
22000	18x40 3750															

W.V(V) Cap(μF)	160(2C)		200(2D)		250(2E)		350(2V)		400(2G)		450(2W)	
	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r
1.0	6.3x11	15	6.3x11	16	6.3x11	16	6.3x11	20	8x11.5	25	8x11.5	24
2.2	6.3x11	27	6.3x11	28	6.3x11	28	8x11.5	37	8x11.5	40	10x12.5	38
3.3	6.3x11	42	6.3x11	44	8x11.5	44	8x11.5	48	10x12.5	58	10x12.5	55
4.7	6.3x11	52	8x11.5	63	8x11.5	63	10x12.5	70	10x16	70	10x16	68
10	10x12.5	95	10x12.5	106	10x12.5	110	10x16	115	10x20	120	13x20	105
22	10x16	168	10x16	168	10x20	179	13x20	198	13x25	205	13x25	200
33	10x20	213	10x20	227	13x20	258	13x25	280	16x25	292	16x25	285
47	13x20	296	13x20	296	13x25	329	16x25	358	16x25	360	16x35.5	346
100	13x25	475	16x25	524	16x31.5	582	16x35.5	596	18x40	600		
220	16x31.5	877	18x35.5	920	18x40	1000						
330	18x35.5	1126										

I_r : Maximum permissible ripple current [mA(rms) at 85°C, 120Hz]