

RM SERIES

ALUMINUM ELECTROLYTIC CAPACITORS

85°C, Miniature, Radial Leads

Features

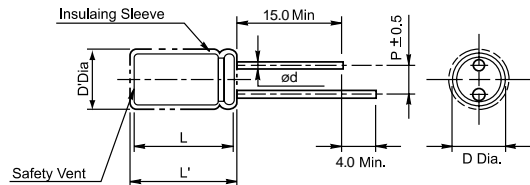
- 85°C, Miniature, Radial
- High CV (Smaller than RSS)
- Ideal for automatic insertion
- Load life of 2000 hours at 85°C



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				350V ~ 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											
	1 ± 0.01CV or 3μA (2min)				1 ± 0.01CV + 10μA (3min)				1 ± 0.02CV + 30μA (3min)			
	Whichever is greater											
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	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

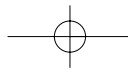
Ripple current coefficient

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	± 60°C	70°C	85°C
Factor	1.65	1.37	1.0



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

φD 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	101	16x25	127
680	8x11.5	470	8x11.5	510	10x12.5	675	10x16	784	10x20	896	13x20	1187	13x25	0	16x35.5	0
1000	8x11.5	550	10x12.5	680	10x16	836		985	13x20	1310	13x25	1495	16x25	137	18x40	171
1500	10x16	780	10x16	897	10x20	1075	10x20	1340	13x25	1590	16x31.5	1854	16x35.5	2		0
2200	10x20	1040	10x20	1154	13x20	1330	13x20	1680	16x25	1980	16x35.5	2370	18x35.5	168		185
3300	10x20	1200	13x20	1515	13x25	1728	13x25	2064	16x35.5	2525	18x35.5	2864		6		0
4700	13x20	1620	13x25	1901	16x25	2170	16x25	2585	18x35.5	3090				215		
6800	13x25	2020	16x25	2324	16x31.5	2720	16x31.5	3220						0		
10000	16x25	2410	16x35.5	2950	18x35.5	3350	18x35.5							263		
15000	16x35.5	3150	18x35.5	3495										0		
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]