

Aluminum Electrolytic Capacitors

RC Series – High Ripple Current 105°C



Specifications

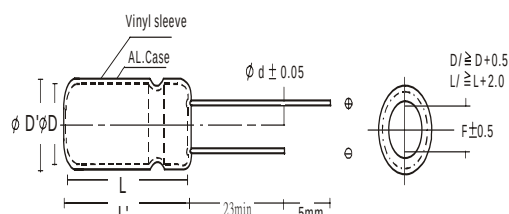
Item	Performance																											
Operating Temperature Range	-40 to+105℃																											
Rated Working Voltage Range	6.3 – 63VDC																											
Nominal Capacitance Range	10 - 6800μ F																											
Capacitance Tolerance	± 20% (at+20℃ ,120Hz)																											
Leakage Current	I ≤ 0.001CV or 0.3(μ A) max, Whichever is greater after 2 minutes																											
Dissipation Factor (tanδ) (120Hz\+20℃)	<table><tr><td>Working Vol.</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Tan δ max</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr></table> Capacitance >1000Uf, Tan shall be added 0.02 with increase of every 1000uF	Working Vol.	6.3	10	16	25	35	50	63	100	Tan δ max	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08									
Working Vol.	6.3	10	16	25	35	50	63	100																				
Tan δ max	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																				
Characteristics at low temperature (stability at 120 Hz)	<table><tr><td>Vol VDC</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>-25c/+20℃</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td></tr><tr><td>-40c/+20℃</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table>	Vol VDC	6.3	10	16	25	35	50	63	100	-25c/+20℃	2	2	2	2	2	2	2	3	-40c/+20℃	3	3	3	3	3	3	3	3
Vol VDC	6.3	10	16	25	35	50	63	100																				
-25c/+20℃	2	2	2	2	2	2	2	3																				
-40c/+20℃	3	3	3	3	3	3	3	3																				
Load life	After 2000-5000hrs. application of DC rated working voltage at +105℃, the capacitor shall meet the following limits: <table><tr><td>Leakage current</td><td>the initial specified value</td></tr><tr><td>Capacitance change</td><td>±25% of initial measured value</td></tr><tr><td>Dissipation Factor(tanδ)</td><td>200% of initial specified value</td></tr></table> 2000hrs for ≤ 6.3Φ,3000hrs for ≤ 8Φ,4000hrs for ≤ 10Φ,5000hrs for ≤ 13Φ, 1000hrs for L=7mm	Leakage current	the initial specified value	Capacitance change	±25% of initial measured value	Dissipation Factor(tanδ)	200% of initial specified value																					
Leakage current	the initial specified value																											
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Dissipation Factor(tanδ)	200% of initial specified value																											
Shelf Life	After storage for 1000hrs. at +105℃ with no voltage applied. Post test requirements at +20℃, same limits as high temperature loading.																											

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CINETECH
SYMBOL OF QUALITY

Diagram of Dimensions



D	4	5	6.3	8	10	13	16	18
F	1.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.45	0.5	0.5	0.6	0.6	0.6	0.8	0.8

Case Size

Max ripple current: mA rms at 105°C. 100KHz

W.V	6.3		10		16		25		35	
μ F	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
10									4x7	130
15							4x7	130	5x7	190
33			5x7	160	5x7	210	5x11	220	5x11	250
47	5x7	175	5x7	190	5x11	230	5x11	250	6.3x11	380
100	5x11	200	5x11	250	6.3x11	370	6.3x11	410	8x11	620
220	8x7	380	6.3x11	410	8x11	620	8x11	760	10x12.5	1030
330	6.3x11	410	7x11	640	8x11	760	10x12.5	1030	10x16	1430
470	8x11	680	8x11	760	10x12.5	1030	10x16	1430	10x20	1820
680	8x15	900	10x12.5	1030	10x16	1430	10x20	1820	13x20	2360
1000	10x12.5	1030	10x16	1430	10x20	1820	13x20	2360	13x25	2770
1500	10x20	1820	10x25	2150	13x20	2360	13x25	2770	13x35	3400
2200	10x25	2150	13x20	2360	13x25	2770	13x35	3400		
3300	13x20	2360	13x25	2770	13x35	3400				
3900	13x25	2770	13x30	3290	16x25	3460				
4700	13x30	3290	13x35	3400						
6800	16x25	3460								

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Max ripple current: mA (rms) (at 105°C. 100Khz)

W.V	50		63		100	
μ F	Size	Ripple	Size	Ripple	Size	Ripple
10	5x7	210			6.3x11	170
15	5x11	215	5x11	170	6.3x11	210
22	5x11	240	6.3x11	220	8x11	330
33	8x7	380	6.3x11	270	8x15	375
47	6.3x11	360	8x11	420	10x12.5	450
82	8x11	660	10x12.5	625	10x20	750
100	8x11	730	10x16	800	10x25	880
220	10x16	1370	10x25	1300	13x30	1410
330	10x25	1870	13x25	1850	13x40	1700
470	13x20	2050	13x30	2250	16x36	1890
680	13x30	2860	13x40	2780	18x40	2570
1000	16x32	3350	16x36	2840		