

Aluminum Electrolytic Capacitors

BP Series – Bi-Polarized 105°C



Specifications

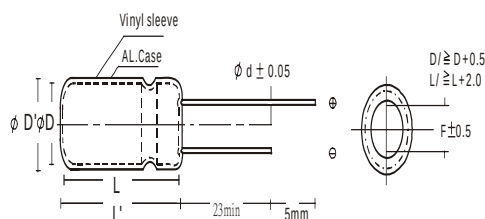
Item	Performance																																				
Operating Temperature Range	-40 to+105℃																																				
Rated Working Voltage Range	6.3 – 250VDC																																				
Nominal Capacitance Range	0.1 - 2200μ F																																				
Capacitance Tolerance	± 20% (at+20℃ ,120Hz)																																				
Leakage Current	$I \leq 0.001CV$ or 0.3(μ A) max, Whichever is greater after 2 minutes																																				
Dissipation Factor (tanδ) (120Hz\+20℃)	<table><tr><td>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><td>160</td><td>200</td><td>250</td></tr><tr><td>Tan δ max</td><td>0.25</td><td>0.22</td><td>0.18</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.15</td><td>0.15</td><td>0.20</td></tr></table> Capacitance >1000Uf, Tan shall be added 0.02 with increase of every 1000uF	Vol.	6.3	10	16	25	35	50	63	100	160	200	250	Tan δ max	0.25	0.22	0.18	0.16	0.14	0.12	0.10	0.09	0.15	0.15	0.20												
Vol.	6.3	10	16	25	35	50	63	100	160	200	250																										
Tan δ max	0.25	0.22	0.18	0.16	0.14	0.12	0.10	0.09	0.15	0.15	0.20																										
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><td>160</td><td>200</td><td>250</td></tr><tr><td>-25c/+20℃</td><td>4</td><td>3</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>-40c/+20℃</td><td>8</td><td>6</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>4</td><td>4</td><td>4</td></tr></table>	Vol VDC	6.3	10	16	25	35	50	63	100	160	200	250	-25c/+20℃	4	3	3	2	2	2	2	2	2	2	2	-40c/+20℃	8	6	6	4	4	3	3	3	4	4	4
Vol VDC	6.3	10	16	25	35	50	63	100	160	200	250																										
-25c/+20℃	4	3	3	2	2	2	2	2	2	2	2																										
-40c/+20℃	8	6	6	4	4	3	3	3	4	4	4																										
Load life	After 2000hrs 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>±20% of initial measured value</td></tr><tr><td>Dissipation Factor(tanδ)</td><td>200% of initial specified value</td></tr></table>	Leakage current	the initial specified value	Capacitance change	±20% of initial measured value	Dissipation Factor(tanδ)	200% of initial specified value																														
Leakage current	the initial specified value																																				
Capacitance change	±20% of initial measured value																																				
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	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8

Case Size

Max ripple current: mA rms at 105°C. 120Hz

W.V	6.3V		10V		16V		25V		35V		50V		63V		100V	
μF	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA
0.1											5x11	4	5x11	5	5x11	5
0.22											5x11	5	5x11	6	5x11	6
0.33											5x11	6	5x11	6	5x11	7
0.47											5x11	7	5x11	8	5x11	8
1											5x11	10	5x11	11	5x11	12
2.2											5x11	15	5x11	16	6.3x11	20
3.3											5x11	18	5x11	20	6.3x11	25
4.7									5x11	21	5x11	22	6.3x11	24	6.3x11	30
10					5x11	27	5x11	27	5x11	30	6.3x11	37	6.3x11	40	8x11.5	50
22	5x11	34	5x11	34	5x11	40	6.3x11	46	6.3x11	51	8x11.5	63	8x11.5	68	10x16	97
33	5x11	45	5x11	45	5x11	49	6.3x11	56	8x11.5	72	8x11.5	77	10x12.5	98	10x20	140
47	5x11	54	5x11	54	6.3x11	67	6.3x11	67	8x11.5	86	10x12.5	105	10x16	130	12.5x20	170
100	6.3x11	90	6.3x11	90	8x11.5	110	8x11.5	110	10x16	160	10x20	190	12.5x20	225	16x25	300
220	8x11.5	150	8x11.5	150	10x12.5	195	10x16	215	12.5x20	290	12.5x25	340	16x25	405	16x35.5	510
330	8x11.5	185	10x16	240	10x16	265	12.5x20	320	12.5x20	350	16x25	460	16x31.5	535		
470	10x12.5	260	10x20	290	10x20	345	12.5x25	380	12.5x25	465	16x31.5	590	18x35.5	680		
1000	10x20	460	12.5x20	510	12.5x25	605	16x25	670	16x31.5	805						
2200	12.5x25	820	16x25	940	16x31.5	1,070	18x35.5	1,140								

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Max ripple current: mA (rms) (at 105°C. 120Hz)

W.V	160		200		250	
μ F	Size	Ripple	Size	Ripple	Size	Ripple
0.47	5x11	8	5x11	9	6.3x11	10
1	6.3x11	11	8x11.5	12	8x11.5	13
2.2	8x11.5	18	8x11.5	22	10x12.5	26
3.3	8x11.5	26	10x12.5	30	10x16	37
4.7	10x12.5	31	10x16	37	10x20	50
10	10x16	60	10x20	66	10x20	79
22	12.5x20	117	12.5x20	117	12.5x25	138
33	12.5x20	143	12.5x25	158	16x25	169
47	16x25	188				