

## ALUMINUM ELECTROLYTIC CAPACITORS

- Load life of 2000 hours at 105℃
- Wide temperature



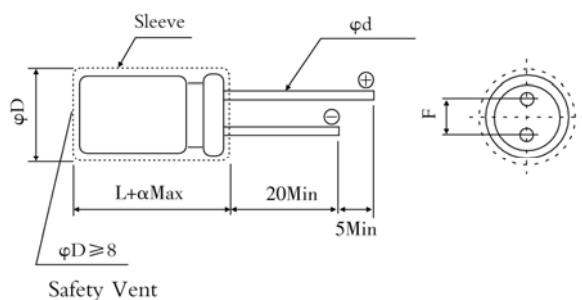
### SPECIFICATIONS

Item	Characteristics																																																						
Operating Temperature Range(℃)	-40~+105							-25~+105																																															
Rated Voltage Range (V)	6.3~100							160~450																																															
Nominal capacitance range (μF)	0.1~10000							0.47~220																																															
Capacitance Tolerance(20℃,120Hz)	±20%																																																						
Leakage current (μA)	I≤0.01CV or 3 whichever is greater.							I≤0.02CV+15																																															
	( at 20℃,after 2minutes) C: Nominal Capacitance (uF) V: Rated voltage (V)																																																						
Dissipation Factor(20℃,120Hz)	<table><tr><td>Rated Voltage (V)</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>160~400</td><td>450</td></tr><tr><td>tanδ</td><td>0.25</td><td>0.20</td><td>0.17</td><td>0.15</td><td>0.12</td><td>0.10</td><td>0.10</td><td>0.08</td><td>0.20</td><td>0.25</td></tr></table>											Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160~400	450	tanδ	0.25	0.20	0.17	0.15	0.12	0.10	0.10	0.08	0.20	0.25																						
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when nominal capacitance is over 1000uF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF																																																							
Load Life(+105℃)	<table><tr><td>Time</td><td colspan="10">2000 hours.</td></tr><tr><td>Leakage Current</td><td colspan="10">Not more than the specified value.</td></tr><tr><td>Capacitance Change</td><td colspan="10">Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="10">Not more than 200% of the specified value.</td></tr></table>											Time	2000 hours.										Leakage Current	Not more than the specified value.										Capacitance Change	Within ±20% of the initial value.										Dissipation Factor	Not more than 200% of the specified value.									
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Shelf Life(+105℃)	<table><tr><td>Time</td><td colspan="10">1000 hours.</td></tr><tr><td>Leakage Current</td><td colspan="10">Not more than the specified value.</td></tr><tr><td>Capacitance Change</td><td colspan="10">Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="10">Not more than 200% of the specified value.</td></tr></table>											Time	1000 hours.										Leakage Current	Not more than the specified value.										Capacitance Change	Within ±20% of the initial value.										Dissipation Factor	Not more than 200% of the specified value.									
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After test: Rated voltage to be applied for 30 minutes, 24 to 48 hours before measurement.																																																							

### DIMENSIONS

### MM

### MULTIPLIER FOR RIPPLE CURRENT



### Lead spacing and diameter

ΦD	±0.5			±1.0				
	5	6.3	8	10	12.5	16	18	22
F±0.5	2	2.5	3.5	5		7.5		10
Φd±0.1	0.5		0.6			0.8		
a	0~+2.0							

### Temperature coefficient

Temp.(℃)	+70	+85	+105
WV(V)			
6.3~100	2.0	1.7	1
160~450	1.8	1.4	1

## ■ STANDARD RATINGS

WV(V)	6.3		10		16		25		35		50		63		100	
Cap (μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)
0.1	-	-	-	-	-	-	-	-	-	-	5x11	3	-	-	5x11	3
0.22	-	-	-	-	-	-	-	-	-	-	5x11	4	-	-	5x11	4
0.33	-	-	-	-	-	-	-	-	-	-	5x11	5	-	-	5x11	5
0.47	-	-	-	-	-	-	-	-	-	-	5x11	6	-	-	5x11	6
1	-	-	-	-	-	-	-	-	-	-	5x11	9	-	-	5x11	9
2.2	-	-	-	-	-	-	-	-	-	-	5x11	11	-	-	5x11	15
3.3	-	-	-	-	-	-	-	-	-	-	5x11	15	-	-	5x11	18
4.7	-	-	-	-	-	-	-	-	-	-	5x11	18	5x11	20	5x11	20
10	-	-	-	-	5x11	20	5x11	25	5x11	25	5x11	25	5x11	30	6.3x11	35
22	-	-	-	-	5x11	30	5x11	35	5x11	35	5x11	40	6.3x11	50	8x11.5	65
33	-	-	-	-	5x11	40	5x11	40	5x11	50	6.3x11	60	6.3x11	60	10x12.5	95
47	-	-	5x11	45	5x11	50	5x11	50	6.3x11	65	6.3x11	70	8x11.5	90	10x16	120
100	5x11	60	5x11	80	6.3x11	80	6.3x11	90	8x11.5	110	8x11.5	120	10x12.5	150	12.5x20	220
220	6.3x11	100	6.3x11	110	8x11.5	140	8x11.5	150	10x12.5	190	10x16	240	10x20	270	16x25	420
330	6.3x11	120	8x11.5	160	8x11.5	180	10x12.5	220	10x16	260	10x20	320	12.5x20	380	16x25	510
470	8x11.5	170	8x11.5	190	10x12.5	250	10x16	290	10x20	350	12.5x20	430	12.5x25	500	16x31.5	680
1000	10x12.5	300	10x16	360	10x20	440	12.5x20	540	12.5x25	620	16x25	790	16x31.5	900	18X40	1230
2200	12.5x20	580	12.5x20	620	12.5x25	700	16x25	880	16x31.5	1030	18x35.5	1230	18X40	1310	-	-
3300	12.5x20	670	12.5x25	800	16x25	970	16x31.5	1120	18x35.5	1320	18X40	1400	22X40	1730	-	-
4700	16x25	1000	16x25	1050	16x31.5	1240	18x35.5	1440	18X40	1540	22X40	1780	-	-	-	-
6800	16x25	1120	16x31.5	1300	18x35.5	1530	18X40	1630	22X40	1880	-	-	-	-	-	-
10000	18x31.5	1320	18x35.5	1620	18X40	1730	22X40	2000	-	-	-	-	-	-	-	-

WV(V)	160		200		250		350		400		450	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)	ΦDxL (mm)	(mA)
0.47	5X11	8	6.3x11	6	6.3x11	6	-	-	-	-	-	-
1	5X11	12	6.3x11	9	6.3x11	9	8x11.5	12	10x16	15	10x20	18
2.2	6.3X11	15	6.3x11	15	8x11.5	15	10x12.5	18	10x16	20	10x20	29
3.3	8X11.5	20	8x11.5	20	10x12.5	20	10x16	23	10x16	25	10x20	41
4.7	8X11.5	25	10x12.5	30	10x12.5	30	10x16	35	12.5X20	40	12.5X20	49
10	10X12.5	40	10x16	45	10x20	45	10x20	50	12.5x20	70	12.5x25	75
22	10X20	70	10x20	70	12.5x25	80	12.5x25	80	16x31.5	100	16x35.5	115
33	12.5X20	110	12.5x25	110	12.5x25	100	16x31.5	140	18X35.5	180	18X40	145
47	12.5X25	140	12.5x25	140	16x25	140	18x35.5	360	-	-	-	-
100	16X25	240	16x31.5	250	18x35.5	260	-	-	-	-	-	-
220	18X35.5	430	-	-	-	-	-	-	-	-	-	-

■ Ripple Current: 105℃,100 or 120Hz.

The specific capacitance and case size are available on request.