

ALUMINUM ELECTROLYTIC CAPACITORS



PJ Series

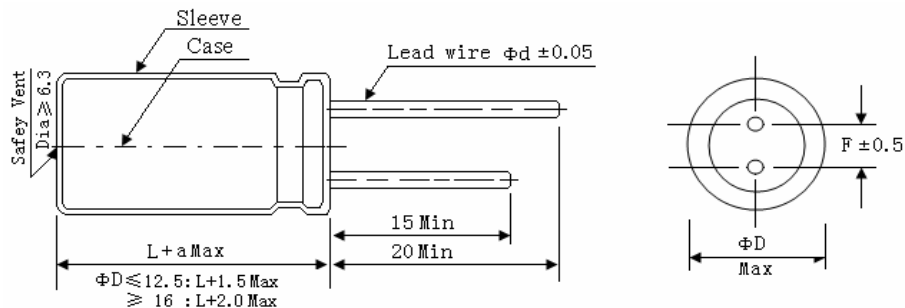
For electronic ballast circuits and long life required applications
 High ripple current
 Load life: 8,000 to 10,000 hours at 105°C



SPECIFICATIONS

Item	Performance Characteristics														
Category Temperature Range	-25 ~ +105°C														
Working Voltage Range	160 ~ 450Vdc														
Capacitance Range	6.8 ~ 330 μF														
Capacitance Tolerance	±20% (at 25°C and 120Hz)														
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tanδ(Max)</td> <td>0.20</td> <td>0.20</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> </tr> </tbody> </table>	Rated Voltage (V)	160	200	250	350	400	450	tanδ(Max)	0.20	0.20	0.24	0.24	0.24	0.24
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tanδ(Max)	0.20	0.20	0.24	0.24	0.24	0.24									
Leakage Current	$I = 0.03CV + 10\mu A$ I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 2 minutes.														
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 10,000 (8,000 hours for Φ 10) hours at 105°C. <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>≒ ±20% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≒ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≒ specified value</td> </tr> </tbody> </table>	Capacitance change	≒ ±20% of the initial value	Dissipation factor(tanδ)	≒ 200% of the specified value	Leakage current	≒ specified value								
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Leakage current	≒ specified value														
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied. <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>≒ ±20% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≒ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≒ 500% of the specified value</td> </tr> </tbody> </table>	Capacitance change	≒ ±20% of the initial value	Dissipation factor(tanδ)	≒ 200% of the specified value	Leakage current	≒ 500% of the specified value								
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Others	Conforms to JIS-C-5101-4 (1998), characteristic W.														

DIMENSIONS (mm)



ΦD	10	12.5 L < 35	12.5 L ≥ 35	16	18
ΦD	ΦD + 0.5 Max				ΦD + 1.0 Max
dΦ	0.6	0.6	0.8	0.8	0.8
F	5.0	5.0	5.0	7.5	7.5

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Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

uF \ Vdc	160		200		250	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
10	10×16	125	10×16	125	10×20	140
22	10×20	200	10×20	200	10×20	200
33	10×20	250	10×20	260	12.5×20	320
47	10×20	300	12.5×20	390	12.5×20	390
68	12.5×20	470	12.5×25	470	16×20	520
82	12.5×20	510	16×20	550	16×20	550
100	12.5×25	620	16×20	630	16×25	680
	16×20	630				
150	16×25	770	16×25	840	18×25	860
220	16×30	1020	18×25	1050	18×32	1130
330	18×32	1390	18×36	1430		

uF \ Vdc	350		400		450	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8	10×16	110	10×16	110	10×20	110
10	10×20	140	10×20	140	12.5×20	180
15			12.5×20	220	12.5×25	240
22	12.5×20	260	12.5×25	260	16×20	290
33	16×20	360	16×20	360	16×25	390
					18×20	380
47	16×25	430	16×25	470	18×25	480
			18×20	450		
68	16×30	560	18×25	585	18×32	630
	18×20	550				
82	18×25	610	18×30	610	18×36	715
100	18×30	700	18×32	765	18×40	800
120	18×32	830	18×36	865		
150	18×40	960	18×45	985		

RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)			
	120	1k	10k	100k
6.8 ~ 82	1.00	1.75	2.25	2.50
100 ~ 330	1.00	1.67	1.75	2.25