



PC Series

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

uF	Vdc	200		400		420		450	
		ΦD × L	RC	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
56								16×30	390
68				16×30	400	16×30	430	16×35	450
82						16×35	490	16×40	510
								18×30	510
100				16×35	500	16×40	520	18×35	600
						18×30	520		
120				16×40	570	18×32	570	18×40	700
				18×30	570	18×35	620		
150				16×50	700	18×40	790	18×45	810
				18×35	700				
180				18×45	880				
220				18×51	1000				
270	16×35	810							
330	16×40	930							
	18×35	930							
390	16×45	1050							
	18×35	1050							
470	18×40	1180							
560	18×51	1320							

◆ RIPPLE CURRENT MULTIPLIERS
Frequency Multipliers

Vdc	Cap.(uF)	Frequency (Hz)			
		120	1K	10K	100K
200 ~ 450	56 ~ 82	1.00	1.50	1.75	1.80
	100 ~ 560	1.00	1.30	1.40	1.50



PV Series

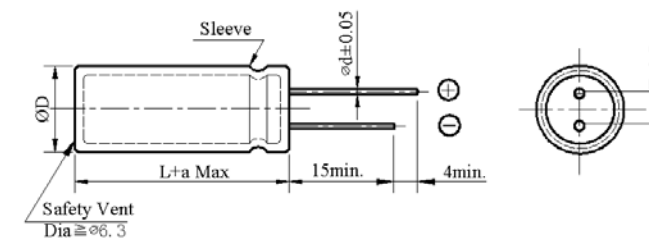
- Downsize and high ripple current
- Load life 2,000 ~ 5,000 hours at 105°C



◆ SPECIFICATIONS

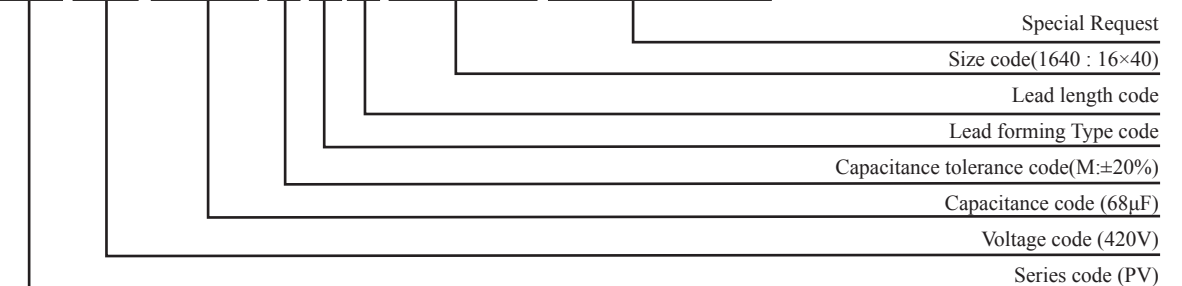
Item	Performance Characteristics														
Category Temperature Range	-25 ~ +105°C														
Working Voltage Range	200 ~ 450Vdc														
Capacitance Range	6.8 ~ 470 μF														
Capacitance Tolerance	±20% (at 25°C and 120Hz)														
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <tr> <th>Rated Voltage (V)</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>420</th> <th>450</th> </tr> <tr> <td>tanδ(Max)</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> </tr> </table>	Rated Voltage (V)	200	250	350	400	420	450	tanδ(Max)	0.20	0.20	0.20	0.20	0.20	0.20
	Rated Voltage (V)	200	250	350	400	420	450								
tanδ(Max)	0.20	0.20	0.20	0.20	0.20	0.20									
The above values should be increased by 0.02 for every additional 1000μF															
Leakage Current	I=0.02CV or 3000 μA whichever is smaller 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 2,000 to 5,000 hours at 105°C .														
	<table border="1"> <tr> <td>Capacitance change</td> <td>≦ ±20% of the initial value</td> <td>Size</td> <td>Life time (hours)</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≦ 200% of the specified value</td> <td>ΦD ≦ 12.5Φ</td> <td>2,000</td> </tr> <tr> <td>Leakage current</td> <td>≦ specified value</td> <td>ΦD ≧ 16 Φ</td> <td>5,000</td> </tr> </table>	Capacitance change	≦ ±20% of the initial value	Size	Life time (hours)	Dissipation factor(tanδ)	≦ 200% of the specified value	ΦD ≦ 12.5Φ	2,000	Leakage current	≦ specified value	ΦD ≧ 16 Φ	5,000		
Capacitance change	≦ ±20% of the initial value	Size	Life time (hours)												
Dissipation factor(tanδ)	≦ 200% of the specified value	ΦD ≦ 12.5Φ	2,000												
Leakage current	≦ specified value	ΦD ≧ 16 Φ	5,000												
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 105°C without voltage applied.														
	<table border="1"> <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>≦ 200% of the specified value</td> </tr> </table>	Capacitance change	≦ ±20% of the initial value	Dissipation factor(tanδ)	≦ 200% of the specified value	Leakage current	≦ 200% of the specified value								
Capacitance change	≦ ±20% of the initial value														
Dissipation factor(tanδ)	≦ 200% of the specified value														
Leakage current	≦ 200% of the specified value														
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	
Φd	0.6	0.6	0.8	0.8	0.8
F	5.0	5.0		7.5	7.5
a	L + 1.5 Max	≤ 35 L+1.5 Max ≥ 40 L+2.0 Max		L + 2.0 Max	

◆ PART NUMBERING SYSTEM (Example : 420V 68μF)





PV Series

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

uF	Vdc	200		250		350	
		ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8						10×16	90
10		10×16	100	10×20	110	10×20	110
15		10×16	110	10×20	130	10×20	130
22		10×20	180	10×20	180	12.5×20	235
33		10×20	215	12.5×20	245	12.5×25	265
47		12.5×20	310	12.5×25	340	16×25	400
68		12.5×25	420	16×20	460	18×25	510
82		16×25	490	16×25	490	18×32	570
100		18×25	560	18×25	610	18×36	650
120		18×25	600	18×25	650	18×40	750
150		18×32	780	18×32	810	20×34	840
220		18×36	920	18×36	940		
330		18×40	1010	18×50	1050		
390		18×45	1130				
470		18×50	1270				

uF	Vdc	400		420		450	
		ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8		10×16	90	10×16	90	10×20	80
10		10×20	110	10×20	110	12.5×20	130
15		12.5×20	180	12.5×20	180	12.5×20	160
22		12.5×25	240	12.5×25	240	12.5×25	200
33		16×25	280	16×25	290	16×25	310
47		16×32	390	16×32	390	18×25	400
68		16×36	505	16×40	510	18×32	550
82		18×32	560	18×32	570	18×36	635
100		18×36	640	18×36	610	18×40	720
120		18×40	745	18×40	660	18×45	770
150		18×45	760	18×50	710	18×50	820

◆ RIPPLE CURRENT MULTIPLIERS Frequency Multipliers

Vdc	Frequency (Hz)				
	50/60	120	1K	10K	100K
200 ~ 350	0.80	1.00	1.20	1.30	1.40
400 ~ 450	0.80	1.00	1.15	1.25	1.35



PJ Series

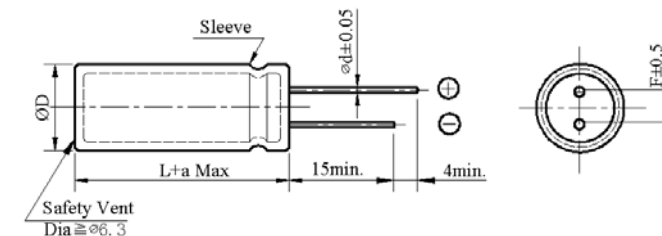
- For electronic ballast circuits and long life required applications
- High ripple current
- Load life: 8,000 to 10,000 hours at 105°C



◆ 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"> <tr> <td>Rated Voltage (V)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <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> </table>	Rated Voltage (V)	160	200	250	350	400	450	tanδ(Max)	0.20	0.20	0.24	0.24	0.24	0.24
Rated Voltage (V)	160	200	250	350	400	450									
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"> <tr><td>Capacitance change</td><td>≅ ±20% of the initial value</td></tr> <tr><td>Dissipation factor(tan δ)</td><td>≅ 200% of the specified value</td></tr> <tr><td>Leakage current</td><td>≅ specified value</td></tr> </table>	Capacitance change	≅ ±20% of the initial value	Dissipation factor(tan δ)	≅ 200% of the specified value	Leakage current	≅ specified value								
Capacitance change	≅ ±20% of the initial 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"> <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> </table>	Capacitance change	≅ ±20% of the initial value	Dissipation factor(tanδ)	≅ 200% of the specified value	Leakage current	≅ 500% of the specified value								
Capacitance change	≅ ±20% of the initial value														
Dissipation factor(tanδ)	≅ 200% of the specified value														
Leakage current	≅ 500% of the specified value														
Others	Conforms to JIS-C-5101-4 (1998), characteristic W.														

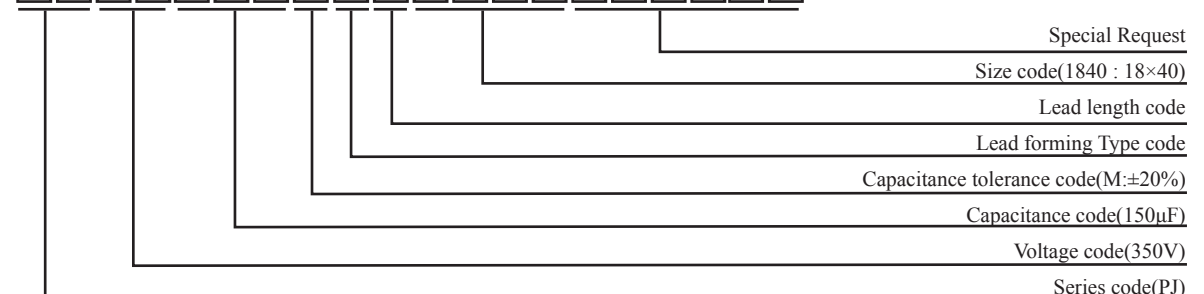
◆ DIMENSIONS (mm)



ΦD	10	12.5 L < 35	12.5 L ≥ 35	16	18
ΦD	ΦD +0.5 Max				ΦD +1.0 Max
Φd	0.6	0.6	0.8	0.8	0.8
F	5.0	5.0		7.5	7.5
a	L + 1.5 Max	≤ 35 L+1.5 Max ≥ 40 L+2.0 Max		L + 2.0 Max	

◆ PART NUMBERING SYSTEM (Example : 350V 150μF)

P J 2 V 1 5 1 M N N 1 8 4 0



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