



PW Series

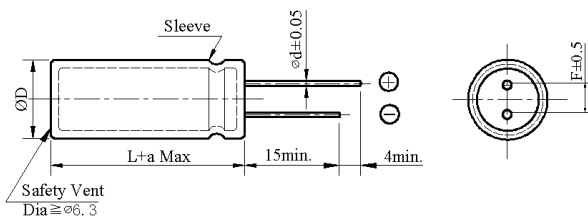
- Downsize and high ripple version of PF series
- Load life 2,000 hours at 105°C



◆ SPECIFICATIONS

Item	Performance Characteristics														
Category Temperature Range	-25 ~ +105°C														
Working Voltage Range	200 ~ 500Vdc														
Capacitance Range	10 ~ 470 μF														
Capacitance Tolerance	±20% (at 25°C and 120Hz)														
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V) 200 ~ 250 350 ~ 500														
	tanδ(Max) 0.15 0.20														
The above values should be increased by 0.02 for every additional 1000μF															
Leakage Current	I=0.03CV + 10μA I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 2 minutes														
Low Temperature Characteristics Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>200 ~ 250</td> <td>350</td> <td>400</td> <td>420</td> <td>475</td> <td>500</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table> <p style="text-align: right;">(at 120Hz)</p>	Rated voltage (V)	200 ~ 250	350	400	420	475	500	Z(-25°C)/Z(+20°C)	3	5	5	6	6	6
Rated voltage (V)	200 ~ 250	350	400	420	475	500									
Z(-25°C)/Z(+20°C)	3	5	5	6	6	6									
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105°C														
	<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>≒ specified value</td> </tr> </table>	Capacitance change	≒ ±20% of the initial value	Dissipation factor(tanδ)	≒ 200% of the specified value	Leakage current	≒ specified value								
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Dissipation factor(tanδ)	≒ 200% of the specified value														
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>≒ 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								
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Leakage current	≒ 200% of the specified value														
Others	Conforms to JIS-C-5101-4 (1998), characteristic W														

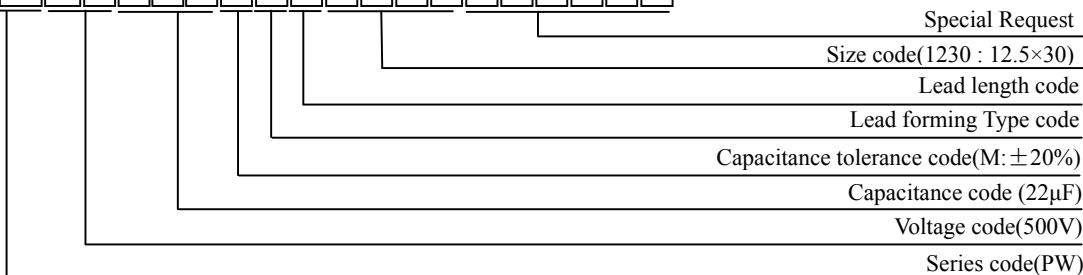
◆ DIMENSIONS (mm)



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

◆ PART NUMBER SYSTEM(Example : 500V 22μF)

P	W	2	H	2	2	0	M	N	N	1	2	3	0					
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PW Series

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

uF \ Vdc	200		220		250		400	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
68							16×30	480
82							16×31.5 18×31.5	500 520
100							16×35.5 18×31.5	560 580
120							16×40 18×35.5	660 670
150			16×30	580	16×31.5	620	18×40	770
180			16×31.5	650	16×35.5	720	18×45	880
220	16×35.5	760	16×35.5	785	16×40	810		
	18×31.5	810	18×31.5	820	18×35.5	830		
330	16×40	980	18×40	1040	18×45	1070		
	18×35.5	1010						
470	18×45	1270	18×50	1350				

uF \ Vdc	420		450		475		500	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
10					12.5×20	100	12.5×20	117
15					12.5×25	128	12.5×25	144
22					12.5×30	160	12.5×30	180
33					16×25	255	16×25	279
47					18×25	340	18×25	360
68	16×31.5	495	16×35.5	505	18×31.5	475	18×35.5	495
	18×30	520	18×31.5	530				
82	16×35.5	520	16×40	535	18×35.5	550	18×40	575
	18×31.5	535	18×35.5	550				
100	16×40	590	18×40	650	18×40	630	18×45	648
	18×35.5	625						
120	18×40	720	18×45	740	18×45	675	18×50	693
150	18×45	785	18×50	800	18×50	830		
180	18×50	950						

◆ **RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Vdc	Frequency (Hz)				
	50	120	1K	10K	100K
200 ~ 500	0.80	1.00	1.30	1.40	1.50