



## PC Series

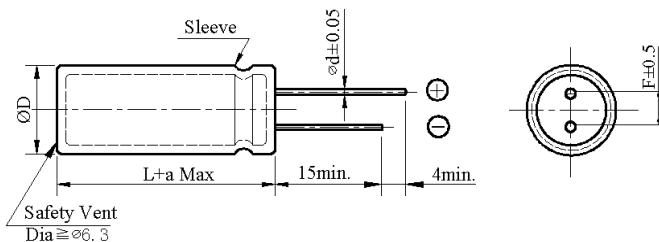
- Downsize, high ripple current design
- Load life 2,000 hours at 105°C
- Ideal for low profile power supply application



### ◆ SPECIFICATIONS

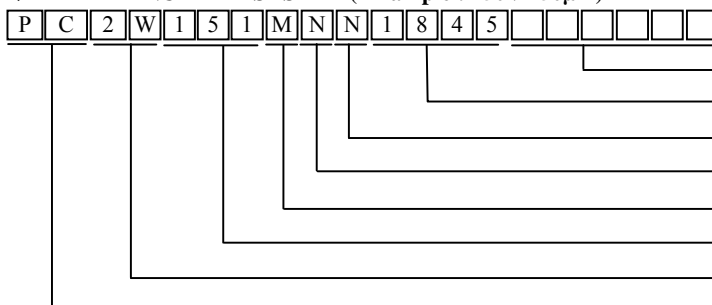
Item	Performance Characteristics										
Category Temperature Range	-25 ~ +105°C										
Working Voltage Range	200 ~ 450Vdc										
Capacitance Range	56 ~ 560 µF										
Capacitance Tolerance	±20% (at 25°C and 120Hz)										
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200</td> <td>400</td> <td>420</td> <td>450</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> </tr> </table>	Rated Voltage (V)	200	400	420	450	tanδ(Max)	0.15	0.20	0.20	0.20
	Rated Voltage (V)	200	400	420	450						
tanδ(Max)	0.15	0.20	0.20	0.20							
The above values should be increased by 0.02 for every additional 1000µF											
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										
Low Temperature Characteristics Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>200</td> <td>400</td> <td>420 ~ 450</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>5</td> <td>6</td> </tr> </table>	Rated voltage (V)	200	400	420 ~ 450	Z(-25°C)/Z(+20°C)	3	5	6		
	Rated voltage (V)	200	400	420 ~ 450							
Z(-25°C)/Z(+20°C)	3	5	6								
(at 120Hz)											
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				
	Capacitance change	≒ ±20% of the initial value									
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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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	16	18
ΦD	ΦD + 0.5 Max	
Φd	0.8	0.8
F	7.5	7.5
a	L + 1.5 Max	

### ◆ PART NUMBER SYSTEM( Example : 450V 150µF )





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◆ 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	16×35.5	450
82					16×35.5	490	16×40	510
							18×30	510
100			16×35.5	500	16×40	520	18×35.5	600
					18×30	520		
120			16×40	570	18×31.5	570	18×40	700
			18×30	570	18×35.5	620		
150			16×50	700	18×40	790	18×45	810
			18×35.5	700				
180			18×45	880				
220			18×50	1000				
270	16×35.5	810						
330	16×40	930						
	18×35.5	930						
390	16×45	1050						
	18×35.5	1050						
470	18×40	1180						
560	18×50	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