

# PW

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

## SPECIFICATIONS

Item	Performance Characteristics	
Category Temperature Range	-25 to +105°C	
Working Voltage Range	200 to 450Vdc	
Capacitance Range	68 to 470 $\mu$ F	
Capacitance Tolerance	$\pm 20\%$ (at 25°C 120Hz)	
Dissipation Factor ( $\tan \delta$ ) (at 25°C 120Hz)	Rated Voltage (V)	200 to 250      350 to 450
	$\tan \delta$ (Max)	0.15      0.20
The above values should be increased by 0.02 for every additional 1000 $\mu$ F		
Leakage Current	$I = 0.03CV + 10 \mu A$ I: Leakage current. ( $\mu A$ )    C: Rated capacitance. ( $\mu F$ )    V: Rated voltage. (V) The rated voltage is impressed for two minutes.	
Endurance	After applying rated voltage to the capacitor for 2,000 hours at 105°C, the following characteristics shall be satisfied when the capacitor has been restored to 25°C. Capacitance change $\leq \pm 20\%$ of the initial value Dissipation factor ( $\tan \delta$ ) $\leq 200\%$ of the specified value Leakage current $\leq$ specified value	
Shelf Life	After exposing the capacitor for 1,000 hours at 105°C, without applying voltage, the following characteristics shall be satisfied when the capacitor has been restored to 25°C. Capacitance change $\leq \pm 20\%$ of the initial value Dissipation factor ( $\tan \delta$ ) $\leq 200\%$ of the specified value Leakage current $\leq 200\%$ of the specified value	
Others	Conforms to JIS C-5141 (1991), characteristic W	

## RIPPLE CURRENT MULTIPLIERS

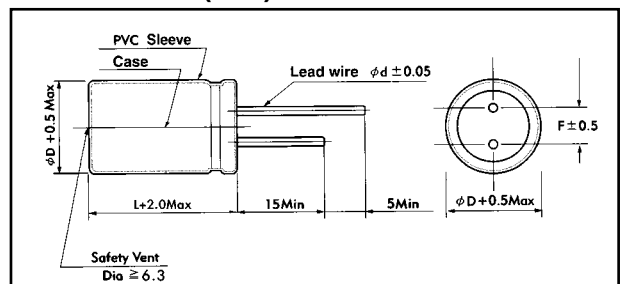
### Temperature Multipliers

Temp (°C)	40	60	70	85	95	105
Factor	1.90	1.75	1.61	1.40	1.25	1.00

### Frequency Multipliers

Vdc	Freq.(Hz)	50(60)	120	1K	10K	100K
	Cap.( $\mu F$ )					
200 to 450	68 to 220	0.80	1.00	1.40	1.40	1.40
	330 to 470	0.90	1.00	1.13	1.13	1.13

### DIMENSIONS(mm)



$\phi D$	16	18
$\phi d$	0.8	0.8
F	7.5	7.5

**PW**

**Case size & Permissible Ripple Current**

Vdc μ F	200		250		400		450	
	DxL	Ripple	DxL	Ripple	DxL	Ripple	DxL	Ripple
68					16x30	480	16x36	460
82					16x32	500	18x32	480
					18x32	520	16x40	510
100					16x36	560	18x36	550
					18x32	580	18x40	650
120					16x40	660	18x45	740
					18x36	670		
150			16x32	620	18x40	770	18x51	800
180			16x36	720	18x45	880		
220	16x36	760	16x40	810	↑ Case size φ DXL(mm)	↑ Ripple current (mA rms) at 105°C, 120Hz		
	18x32	810	18x36	830				
330	16x40	980	18x45	1070				
	18x36	1010						
470	18x45	1270						

**LOAD LIFE TEST**

————— 220 μF/250V  
 - - - - - 150 μF/400V

