



## 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							16×32	500
100							16×36	560
120							18×32	580
150							16×40	660
180			16×30	580	16×32	620	18×40	770
220			16×32	650	16×36	720	18×45	880
330	16×36	760	16×36	785	16×40	810		
470	18×32	810	18×32	820	18×36	830		
	16×40	980	18×40	1040	18×45	1070		
	18×36	1010						
	18×45	1270	18×51	1350				

uF \ Vdc	420		450		500	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
10					12.5×20	117
15					12.5×25	144
22					12.5×30	180
33					16×25	279
47					18×25	360
68	16×32	495	16×36	505	18×36	495
	18×30	520	18×32	530		
82	16×36	520	16×40	535	18×40	575
	18×32	535	18×36	550		
100	16×40	590	18×40	650	18×45	648
	18×36	625				
120	18×40	720	18×45	740	18×51	693
150	18×45	785	18×51	800		
180	18×51	950				

◆ RIPPLE CURRENT MULTIPLIERS  
Frequency Multipliers

Vdc	Cap.(uF)	Frequency (Hz)				
		50/60	120	1K	10K	100K
200 ~ 500	10 ~ 220	0.80	1.00	1.40	1.40	1.40
	330 ~ 470	0.90	1.00	1.13	1.13	1.13



## PZ Series

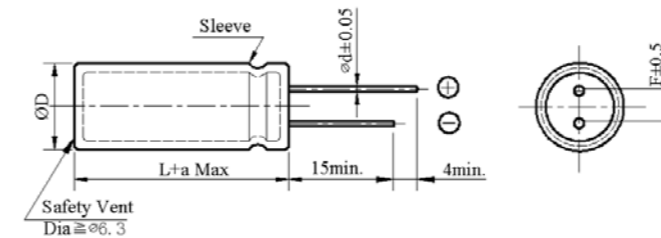
- Rated voltage range: 200 to 450Vdc, Capacitance: 18 to 270μF
- Load life 2,000 hours at 105°C
- Ideal for low profile power supply applications



◆ SPECIFICATIONS

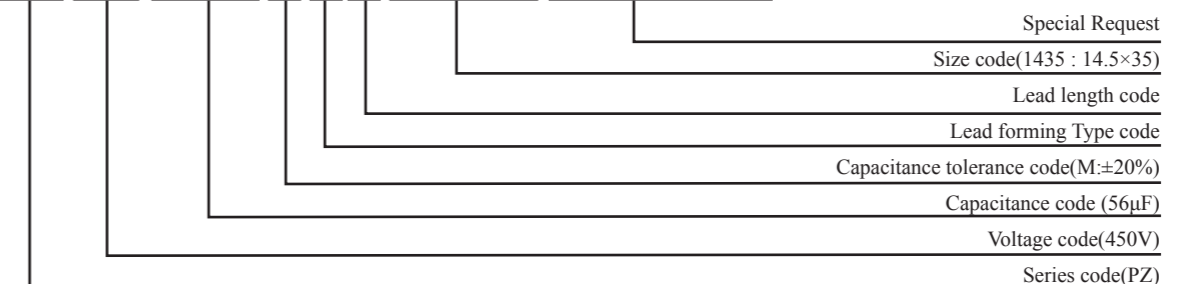
Item	Performance Characteristics	
Category Temperature Range	-40 ~ +105°C	-25 ~ +105°C
Working Voltage Range	200 ~ 400Vdc	420 ~ 450Vdc
Capacitance Range	27 ~ 270 μF	18 ~ 100 μF
Capacitance Tolerance	±20% (at 25°C and 120Hz)	
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V)	200    400    420    450
	tanδ(Max)	0.12    0.15    0.20    0.20
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.	
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 2,000 hours at 105°C .	
Shelf Life	Capacitance change	≒ ±20% of the initial value
	Dissipation factor(tanδ)	≒ 200% of the specified value
	Leakage current	≒ specified value
Others	The following requirements shall be satisfied when the capacitor are restored to 25 after the rated voltage applied for 1,000 hours at 105°C without voltage applied.	
	Capacitance change	≒ ±20% of the initial value
	Dissipation factor(tanδ)	≒ 200% of the specified value
	Leakage current	≒ 200% of the specified value
	Conforms to JIS-C-5101-4 (1998), characteristic W.	

◆ DIMENSIONS (mm)



ΦD	10	12.5 L<35	12.5 L≥35	14.5
ΦD	ΦD + 1.0 Max			
Φd	0.6	0.6	0.8	0.8
F	5.0	5.0		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 : 450V 56μF )





## PZ Series

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

uF	200		400		420		450	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
18							10×30	190
22					10×30	205	10×35	215
27			10×30	240	10×35	245	10×40	250
33			10×35	270	10×40	280	12.5×30	300
39			10×40	295	10×45	295	10×50	315
			12.5×30	305	12.5×30	295	12.5×35	315
47			10×50	335	10×55	350	12.5×40	350
			12.5×35	335	12.5×35	350	14.5×30	350
56			12.5×40	380	12.5×40	390	14.5×35	395
					14.5×30	390		
68			12.5×50	435	12.5×50	440	12.5×50	400
			14.5×35	435	14.5×35	460	14.5×40	450
82	10×35	420	14.5×40	480	14.5×40	515	14.5×50	490
100	10×40	460	14.5×45	525	14.5×50	570		
120	10×50	530						
	12.5×30	530						
150	12.5×35	585						
180	12.5×40	675						
220	14.5×35	750						
270	14.5×40	865						

### ◆ RIPPLE CURRENT MULTIPLIERS Frequency Multipliers

Vdc	Cap.(uF)	Frequency (Hz)			
		120	1K	10K	100K
200 ~ 450	18 ~ 82	1.00	1.50	1.75	1.80
	100 ~ 270	1.00	1.30	1.40	1.50



## PA Series

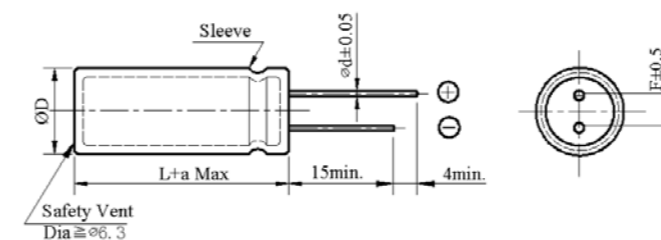
- 105°C Long Life (5,000 hours), Ultra Miniature size  
Body diameter of Φ10mm to Φ14.5mm with high ripple current capability



### ◆ SPECIFICATIONS

Item	Performance Characteristics								
Category Temperature Range	-25 ~ +105°C								
Working Voltage Range	400 ~ 450Vdc								
Capacitance Range	33 ~ 120 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>400</td> <td>420</td> <td>450</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> </tr> </table>	Rated Voltage (V)	400	420	450	tanδ(Max)	0.20	0.20	0.20
	Rated Voltage (V)	400	420	450					
tanδ(Max)	0.20	0.20	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.								
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 5,000 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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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.								

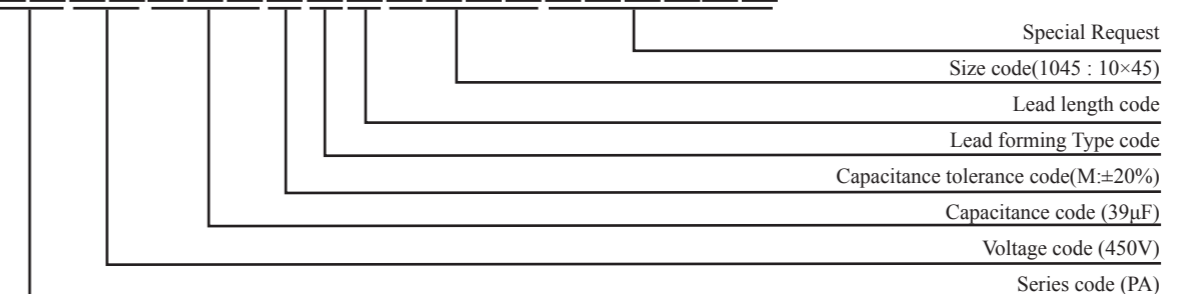
### ◆ DIMENSIONS (mm)



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ΦD	ΦD + 1.0 Max			
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F	5.0	5.0		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 : 450V 39μF )

P A 2 W 3 9 0 M N N 1 0 4 5



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