



PA Series

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

uF	Vdc	400		420		450	
		ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
33						10×50	340
39		10×45	370	10×50	360	10×55	380
47		10×50	420	10×55	430	12.5×40	440
56		10×55	470	12.5×40	480	12.5×45	490
68		12.5 ×40	540	14.5×40	520	12.5×50	550
						14.5×40	530
82		12.5×50	610	12.5×50	590	14.5×45	630
		14.5×40	570	14.5×45	590		
100		14.5×45	690	14.5×50	670	14.5×55	710
120		14.5×55	790				

◆ RIPPLE CURRENT MULTIPLIERS Frequency Multipliers

Vdc	Frequency (Hz)				
	60(50)	120	500	1K	10K≤
400 ~ 450	0.80	1.00	1.25	1.40	1.50



PQ Series

◆ 105°C Long Life (10,000 hours), Miniature size

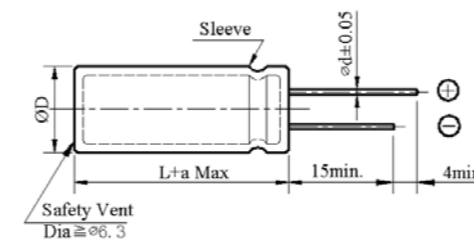
Body diameter of Φ10mm to Φ12.5mm with high ripple current capability.



◆ SPECIFICATIONS

Item	Performance Characteristics														
Category Temperature Range	-25 ~ +105°C														
Working Voltage Range	200 ~ 450Vdc														
Capacitance Range	33 ~ 220 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>220</td> <td>250</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> <td>0.20</td> <td>0.25</td> <td>0.25</td> </tr> </table>	Rated Voltage (V)	200	220	250	400	420	450	tanδ(Max)	0.20	0.20	0.20	0.20	0.25	0.25
	Rated Voltage (V)	200	220	250	400	420	450								
tanδ(Max)	0.20	0.20	0.20	0.20	0.25	0.25									
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 10,000 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														
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.															
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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.														

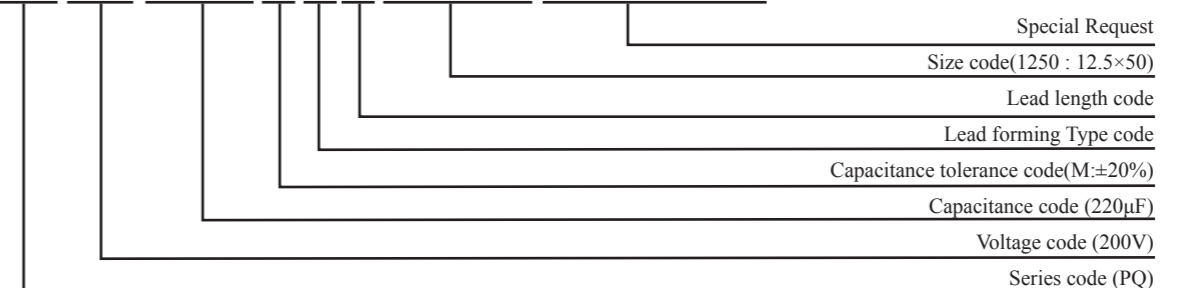
◆ DIMENSIONS (mm)



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

◆ PART NUMBERING SYSTEM (Example : 200V 220μF)

P Q 2 D 2 2 1 M N N 1 2 5 0





PQ Series

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

uF	Vdc	200		220		250	
		ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
68						10×45	505
82				10×45	530	10×50	610
100		10×45	630	10×50	660	12.5×35	690
120		10×55	750	12.5×35	740	12.5×40	790
150		12.5×35	800	12.5×40	860	12.5×45	920
180		12.5×40	920	12.5×45	990		
220		12.5×50	1090				

uF	Vdc	400		420		450	
		ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
33				10×50	370	10×55	360
						12.5×30	
39		10×50	400	10×55	410	12.5×35	420
47		10×55	450	12.5×35	450	12.5×40	480
56		12.5×40	500	12.5×40	520	12.5×45	530
68		12.5×45	580	12.5×50	580		
82		12.5×55	650				

◆ RIPPLE CURRENT MULTIPLIERS Frequency Multipliers

Vdc	Frequency (Hz)				
	60(50)	120	500	1K	10K≤
200 ~ 250	0.80	1.00	1.20	1.30	1.40
400 ~ 450	0.80	1.00	1.25	1.40	1.50



PC Series

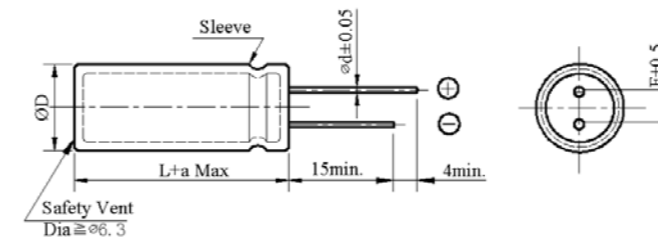
- Downsize, high ripple current design.
- Load life 2,000 hours at 105°C
- Ideal for low profile power supply application



◆ SPECIFICATIONS

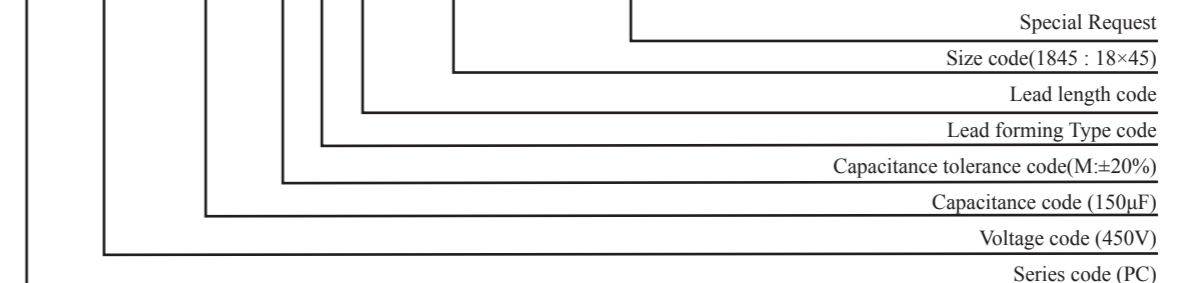
Item	Performance Characteristics										
Category Temperature Range	-25 ~ +105°C										
Working Voltage Range	200 ~ 450Vdc										
Capacitance Range	56 ~ 560 μF										
Capacitance Tolerance	±20% (at 25°C and 120Hz)										
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <tr> <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
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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 + 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 .										
	<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.										
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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 + 1.0 Max
Φd	0.8	0.8
F	7.5	7.5
a	L + 2.0 Max	

◆ PART NUMBERING SYSTEM (Example : 450V 150μF)



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