



## PG Series

- Smaller size with higher ripple current
- Load life 5,000 hours at 105°C



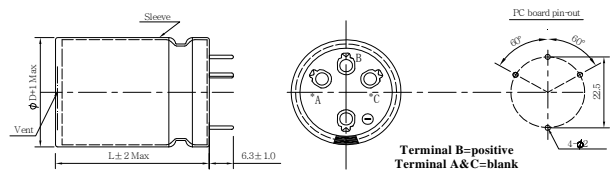
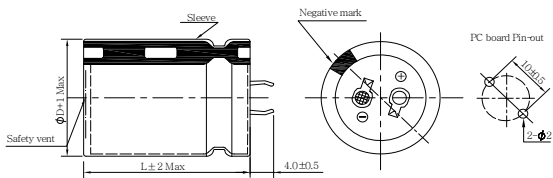
### SPECIFICATIONS

Item	Performance Characteristics																
Category Temperature Range	-25 ~ +105°C																
Working Voltage Range	200 ~ 500Vdc																
Capacitance Range	47 ~ 1,800µF																
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> <td>500</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> </table>	Rated Voltage (V)	200	220	250	400	420	450	500	tanδ(Max)	0.20	0.20	0.20	0.25	0.25	0.25	0.25
	Rated Voltage (V)	200	220	250	400	420	450	500									
tanδ(Max)	0.20	0.20	0.20	0.25	0.25	0.25	0.25										
Leakage Current	I=0.02CV or 3000µA, whichever is smaller I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 5 minutes																
Low Temperature Characteristics Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>200 ~ 250</td> <td>400</td> <td>420 ~ 450</td> <td>500</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>8</td> <td>8</td> </tr> </table> <p style="text-align: right;">(at 120Hz)</p>	Rated voltage (V)	200 ~ 250	400	420 ~ 450	500	Z(-25°C)/Z(+20°C)	4	4	8	8						
Rated voltage (V)	200 ~ 250	400	420 ~ 450	500													
Z(-25°C)/Z(+20°C)	4	4	8	8													
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 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										
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 exposing them 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)

Terminal Code : ND : Standard

Terminal Code : K6 (ø35)



### PART NUMBER SYSTEM ( Example : 450V 470µF )

P G 2 W 4 7 1 M N D 3 5 5 1

Special Request

Size code(3551 : 35×51)

Terminal length code

Lead forming Type code

Capacitance tolerance code(M:±20%)

Capacitance code (470µF)

Voltage code (450V)

Series code (PG)



**PG Series**

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

Vdc ΦD uF	200								Vdc ΦD uF	220							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
270	22×30	1010							220	22×30	900						
330	22×35	1150							270	22×30	950						
390	22×40	1210	25×30	1200					330	22×35	1200	25×30	1150				
470	22×45	1330	25×35	1320					390	22×40	1300	25×35	1320				
560	22×50	1470	25×40	1460	30×30	1460			470	22×45	1520	25×40	1400	30×30	1350		
680			25×45	1620	30×35	1630			560	22×50	1610	25×45	1510	30×35	1510		
820			25×50	1780	30×40	1830	35×30	1820	680			25×50	1710	30×40	1660	35×30	1620
1000					30×45	2100	35×35	2100	820					30×45	1820	35×35	1760
1200					30×50	2410	35×40	2420	1000					30×50	2160	35×40	2140
1500							35×50	2810	1200							35×45	2520
1800									1500							35×50	2960

Vdc ΦD uF	250								Vdc ΦD uF	400							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
120									68	22×25	470						
150									82	22×25	580						
180									100	22×30	640	25×25	640				
220	22×30	910							120	22×35	690	25×30	680				
270	22×35	1050							150	22×40	810	25×30	810	30×25	750		
330	22×40	1170	25×35	1160					180	22×45	900	25×35	890	30×30	870		
390	22×45	1360	25×40	1330	30×30	1360			220	22×50	1010	25×40	1000	30×35	1000	35×30	1000
470	22×50	1460	25×45	1430	30×35	1510			270			25×50	1100	30×40	1100	35×30	1110
560			25×50	1640	30×40	1640			330					30×45	1310	35×35	1310
680					30×45	1820	35×35	1820	390					30×50	1410	35×40	1420
820					30×50	1990	35×40	2030	470							35×45	1530
1000							35×45	2140	560							35×50	1680
1200							35×50	2760	680							35×55	1880

Vdc ΦD uF	420								Vdc ΦD uF	450							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
68	22×25	460							68	22×25	490						
82	22×30	590	25×25	600					82	22×30	590						
100	22×35	630	25×30	620					100	22×35	640	25×30	640	30×25	580		
120	22×40	670	25×30	700	30×25	750			120	22×40	690	25×35	690	30×25	670		
150	22×45	790	25×35	800	30×30	770			150	22×45	810	25×40	810	30×30	740	35×25	690
180	22×50	880	25×40	870	30×30	890			180	22×50	900	25×45	870	30×35	840	35×30	790
220			25×45	990	30×35	1050	35×30	980	220			25×50	1010	30×40	940	35×30	970
270			25×50	1270	30×40	1100	35×35	1080	270					30×45	1070	35×35	1080
330					30×45	1260	35×40	1230	330					30×50	1210	35×40	1250
390					30×50	1380	35×45	1350	390							35×45	1380
470							35×50	1450	470							35×50	1560
560							35×55	1650	560								



# PG Series

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

Vdc ΦD uF	500							
	Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
47	22×25	420						
56	22×30	560						
68	22×35	610	25×25	550				
82	22×40	720	25×30	590				
100	22×45	770	25×35	680	30×25	630		
120	22×50	820	25×40	730	30×30	720		
150			25×45	820	30×35	800	35×25	790
180			25×50	940	30×40	910	35×30	900
220					30×45	980	35×35	1010
270					30×50	1170	35×40	1180
330							35×45	1300
390							35×50	1420

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)				
	50/60	120	1K	10K	100K
200 ~ 250	0.80	1.00	1.20	1.30	1.40
400 ~ 500	0.80	1.00	1.10	1.12	1.15