

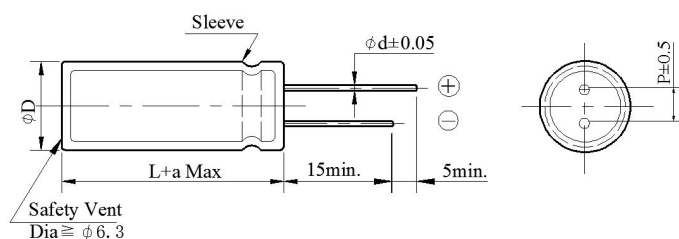
PW Series

- Downsize and high ripple.
- Load life 2,000 hours at 105°C.

◆ SPECIFICATIONS

Item		Performance Characteristics						
Category Temperature Range		-40~+105℃(160~400V.DC) -25~+105℃(420~550V.DC)						
Working Voltage Range		160~550Vdc						
Capacitance Range		10~470 μF						
Capacitance Tolerance		±20% (at 20℃ and 120Hz)						
Dissipation Factor (tan δ) (at 20℃, 120Hz)	Rated Voltage (V)	160 ~350	400 ~ 550					
	tan δ (Max)	0.15	0.20					
	The above values should be increased by 0.02 for every additional 1000μF							
Leakage Current		I≤0.02CV+10μA I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Apply rated voltage the rated voltage for 2 minutes.						
Low Temperature Characteristics Impedance Ratio(MAX)	Rated Voltage (V)	160 ~ 250	350	400	420~450	500	550	(at 120Hz)
	Z(-25℃)/Z(+20℃)	3	5	5	6	6	6	
	Z(-40℃)/Z(+20℃)	6	6	6	-	-	-	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105℃.							
	Capacitance change		≦±20% of the initial value					
	Dissipation factor(tan δ)		≦200% of the specified value					
	Leakage current		≦specified value					
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20℃ after the rated voltage applied for 1,000 hours at 105℃without voltage applied.							
	Capacitance change		≦±20% of the initial value					
	Dissipation factor(tan δ)		≦200% of the specified value					
	Leakage current		≦200% of the specified value					
Others		Conforms to JIS-C-5101-4 (1998) and IEC 60384-4						

◆ DIMENSIONS(mm)



ΦD	10	12.5/13	16	18
ΦD	ΦD ± 0.5 Max			
Φd	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5
a	$< 20 L \pm 1.5 \text{Max}$ $\geq 20 L \pm 2.0 \text{Max}$			

◆ PART NUMBER SYSTEM(Example : 450V 100μF)

E	P	W	4	5	0	M	1	0	1	M	3	5	L	O	7	5	A	A
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Special Request

Lead size

Lead type

Height code (L: 35mm)

Diameter code (M: Φ18)

Capacitance code (100 μF)

Capacitance tolerance code (M: ±20%)

Voltage code (450V)

Series code (PW)

Category code

PW Series

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

WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Max. Rated ripple current @105°C/120Hz (mA rms)	WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Max. Rated ripple current @105°C/120Hz (mA rms)
160	47	10×16	190	200	33	10×16	160
	56	10×20	220		47	13×16	200
	68	10×25	270		56	10×25	220
	82	13×17	300		68	13×20	280
	100	13×20	350		82	13×20	300
	120	16×21	440		100	13×20	320
	150	16×21	490		120	16×26	380
	180	16×25	580		150	16×26	460
	220	16×32	650		180	16×30	580
	330	18×32	740		220	18×26	680
	390	18×35	830		330	18×35	760
	470	18×36	800		390	18×35	820
	560	18×40	950		470	18×40	860
					560	18×45	930
250	22	10×16	120	400	10	10×14	110
	39	10×17	160			10×16	120
	47	10×25	220		15	10×14	120
	56	13×20	260		22	10×16	150
	68	13×25	330			16×17	230
	82	13×25	350		27	10×18	200
	100	16×26	400		33	10×17	220
	120	16×26	420		39	13×18	280
	150	18×26	480		56	16×18	380
	180	18×32	520		68	16×22	450
	220	18×32	630		82	18×20	510
	330	18×40	700		120	18×30	580
	390	18×45	750		180	18×30	660
420	15	10×12	100	450	33	13×18	180
	22	8×20	140		47	18×25	360
	33	10×20	180		56	16×20	340
	39	10×20	200		68	16×25	410
	56	18×18	330		82	18×20	440
	100	18×25	500		100	16×30	480
	120	18×35	600		120	18×40	600
	150	18×40	680		150	18×40	660
	180	18×45	700		180	22×45	780
500	8.2	8×17	60	550	10	10×20	110
	12	10×17	90		15	13×20	130
	15	13×16	110		22	13×25	150
	22	13×18	150		33	16×30	200
	33	16×26	240		47	18×32	300
	47	18×26	340		56	18×32	330
	100	18×45	600				

◆ RIPPLE CURRENT MULTIPLIERS
Frequency Multipliers

Vdc	Frequency (Hz)				
	50	120	1K	10K	100K
160 ~ 550	0.80	1.00	1.30	1.40	1.50