

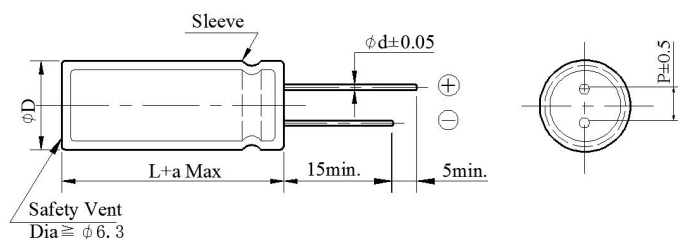
PJ Series

- Load life: 8,000 to 10,000 hours at 105°C
- For electronic ballast circuits and long life.
- High ripple current

◆ 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~ 560μF								
Capacitance Tolerance	±20% (at 20℃ and 120Hz)								
Dissipation Factor (tanδ) (at 20℃, 120Hz)	Rated Voltage (V)	160	200	250	400	420	450	500	550
	tan δ(Max)	0.20	0.20	0.24	0.24	0.24	0.24	0.24	0.24
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	400	420 ~ 450	500	550			
	Z(-25℃)/Z(+20℃)	3	5	6	6	8			
	Z(-40℃)/Z(+20℃)	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 10,000 (8,000 hours for Φ 10) 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		≒ 500% 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 33μF)

E	P	J	4	5	0	M	3	3	0	M	3	0	L	O	7	5	A	A
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																		Special Request
																		Lead size
																		Lead type
																		Height code (L: 30mm)
																		Diameter code (M: Φ18)
																		Capacitance code (33 μF)
																		Capacitance tolerance code (M: ±20%)
																		Voltage code (450V)
																		Series code (PJ)
																		Category code

PJ 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	56	10×20	330	200	47	10×20	320
	68	13×16	390		56	10×25	390
	82	13×20	520		68	10×25	420
	100	13×20	600		82	13×20	480
	150	12.5×25	760		100	13×20	520
	180	16×20	880		150	13×30	770
	220	13×30	920		180	18×22	960
		18×20	1020		220	18×25	1100
	330	18×35	1450		270	16×35	1280
	390	18×30	1480		330	18×32	1420
	470	18×31	1650		390	18×35	1550
250	10	8×12	110	400	2.2	6.3×9	28
	15	8×16	130			8×12	35
	22	10×16	210		4.7	8×12	70
	33	10×20	230		6.8	8×14	80
	47	13×20	400		10	8×16	100
	56	13×20	450			10×16	120
	68	13×20	470		12	8×16	115
	82	13×20	470		15	13×15	160
		16×20	590		18	10×20	175
	100	16×25	750		22	12.5×20	220
	120	18×20	780		33	16×20	340
	150	18×25	900		47	16×20	400
	180	18×25	980		68	13×35	550
	220	18×32	1140			18×20	560
	330	18×40	1500		82	16×25	590
	390	18×50	1800		100	18×25	690
	680	22×50	2500			18×30	750
					120	18×30	820
						18×32	840
420	68	18×20	520	450	3.3	10×13	60
	82	18×20	570		4.7	8×12	60
	100	18×31	760		10	8×16	85
						10×16	100
					15	13×15	140
					22	12.5×20	180
					33	13×25	250
					47	16×20	400
					56	16×25	480
					68	16×30	570
					82	16×32	650
						18×25	630
					100	18×30	750
					120	18×30	820
						18×35	870
					150	18×40	1000
					180	18×45	1100
						22×40	1150
					220	20×50	1400

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◆ 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)
500	4.7	10×14	60	550	5.6	10×14	50
	6.8	10×16	80		6.8	10×16	60
	8.2	10×16	90		10	10×16	75
	10	10×16	100			12.5×16	110
	15	13×20	150		15	13×16	140
	22	13×20	180		22	13×20	160
	33	13×25	250		27	16×20	280
	47	13×25	300		33	18×20	330
		16×25	330		47	12.5×50	400
	100	18×40	600			18×25	350
	120	18×40	620		100	22×40	710
	150	18×50	680				
	150	22×40	800				

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)			
	120	1K	10K	100K
160 ~ 550	1.00	1.75	2.25	2.50