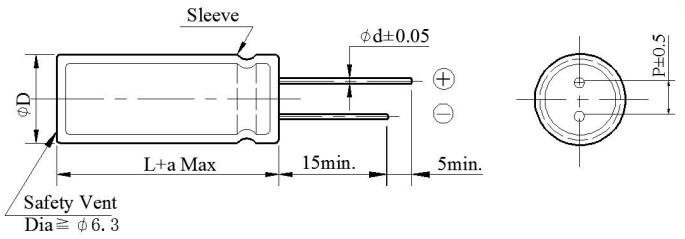
PY Series

- **Downsize and high ripple current.**
- **Load life: 12,000 to 15,000 hours at 105℃.**
- **For electronic ballast circuits and other long life applications.**

◆ SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-40~ +105℃(160~400V.DC) -25~ +105℃(420~450V.DC)
Working Voltage Range	160~450Vdc
Capacitance Range	6.8~470 μF
Capacitance Tolerance	±20% (at 20℃ and 120Hz)
Dissipation Factor (tan δ) (at 20℃, 120Hz)	Rated Voltage (V): 160 ~ 250 / 350 ~ 450; tan δ (Max): 0.20 / 0.24 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 / 400 / 420~450 Z(-25℃)/Z(+20℃): 4 / 5 / 6 Z(-40℃)/Z(+20℃): 6 / 6 / - (at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 15,000(12,000 hours for Φ 10)hours at 105°C. 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±1.5Max ≥ 20 L±2.0Max			

◆ PART NUMBER SYSTEM(Example : 200V 82μF)

E	P	Y	2	0	0	M	2	2	0	G	2	0	L	O	5	0	A	A

Special Request
Lead size
Lead type
Height code（L：20mm）
Diameter code（G：Φ10）
Capacitance code（22μF）
Capacitance tolerance code（M：±20%）
Voltage code（200V）
Series code（PY）
Category code

PY Series

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

WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Max. Rated ripple current @105℃/120Hz (mA rms)	WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Max. Rated ripple current @105℃/120Hz (mA rms)
160	10	10×16	120	200	10	10×16	130
	22	10×20	190		22	10×20	210
	33	10×20	240		33	12.5×20	290
	47	10×25	310		47	12.5×25	390
	68	12.5×20	390		68	12.5×30	500
	82	12.5×25	470		82	16×20	580
	100	12.5×30	560		100	16×25	650
	150	16×25	790		150	16×30	860
	220	16×32	1070		220	18×30	1050
	330	18×35	1450		330	18×45	1300
	470	18×45	1780		470	18×50	1600
250	10	10×20	140	400	6.8	10×13	80
	22	10×20	170		10	10×16	100
	33	10×25	230		15	10×20	130
	47	12.5×25	320		22	12.5×25	240
	68	16×25	530		33	16×20	340
	82	16×30	630		47	18×20	430
	100	18×30	750		56	18×25	520
	150	18×35	980		68	18×32	640
	220	18×40	1200		82	18×32	690
					100	18×35	800
					120	18×40	930
					150	18×45	1000
420	6.8	10×16	80	450	6.8	10×16	80
	10	10×20	110		10	10×20	100
	15	10×20	130		15	10×20	120
	22	13×20	220		22	16×20	250
	33	16×20	300		33	16×25	330
	47	18×25	430		47	18×26	440
	56	18×25	470		56	18×26	480
	68	18×30	560		68	18×30	550
	82	18×35	660		82	18×40	680
	100	18×40	770		100	18×50	800
	120	18×45	900				

◆ **RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Cap(uF)	Frequency (Hz)			
	120	1K	10K	100K
＜100	1.00	1.75	2.25	2.50
≥100	1.00	1.67	2.05	2.25