

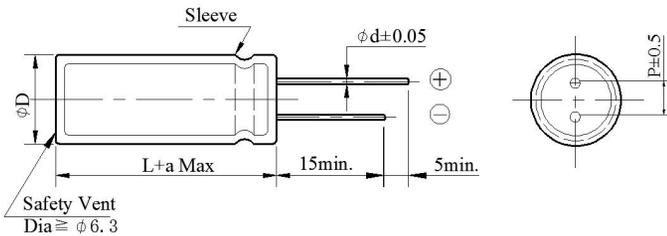
PY Series

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

◆ **SPECIFICATIONS**

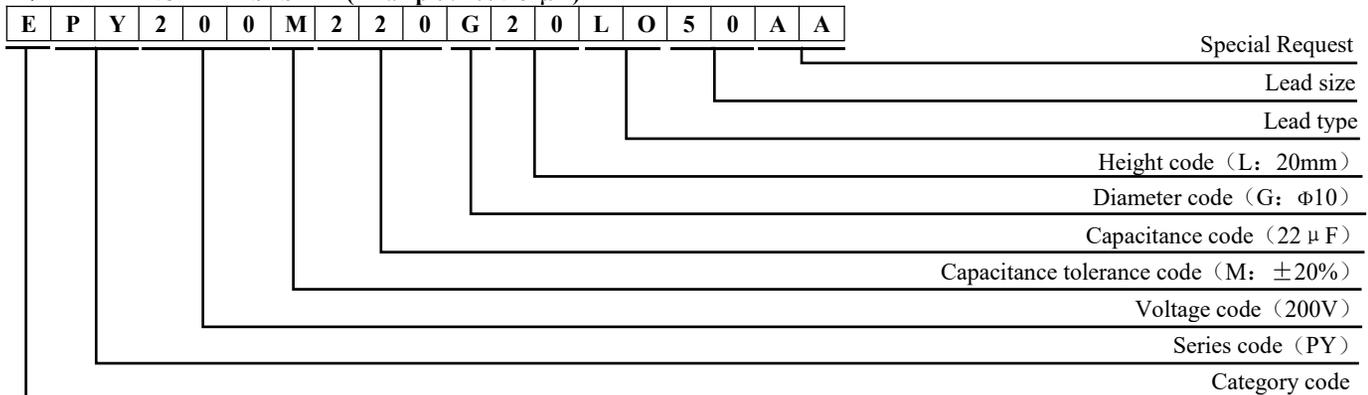
Item	Performance Characteristics			
Category Temperature Range	-40~ +105°C(160~400V.DC) -25~ +105°C(420~450V.DC)			
Working Voltage Range	160~450Vdc			
Capacitance Range	6.8~470 μF			
Capacitance Tolerance	±20% (at 20°C and 120Hz)			
Dissipation Factor (tan δ) (at 20°C, 120Hz)	Rated Voltage (V)	160 ~ 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°C)/Z(+20°C)	4	5	6
	Z(-40°C)/Z(+20°C)	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		
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.			
	Capacitance change	≅ ±20% of the initial value		
	Dissipation factor(tan δ)	≅ 200% of the specified value		
Others	Leakage current			
	≅ 200% of the specified value			
	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)**



PY 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	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