



PA Series

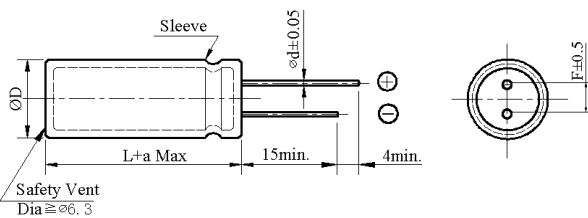


- 105°C Long Life (5,000 hours), Ultra Miniature size
Body diameter of Φ10mm to Φ14.5mm with high ripple current capability

◆ SPECIFICATIONS

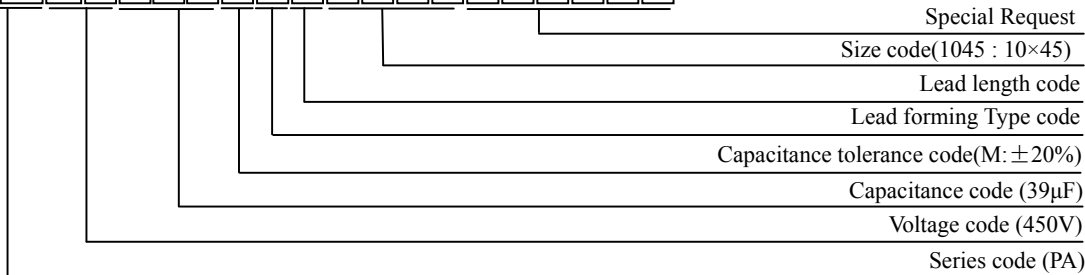
Item	Performance Characteristics			
Category Temperature Range	-25 ~ +105°C			
Working Voltage Range	400 ~ 450Vdc			
Capacitance Range	33 ~ 120 µF			
Capacitance Tolerance	±20% (at 25°C and 120Hz)			
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V)	400	420	450
	tanδ(Max)	0.20	0.20	0.20
Leakage Current	I=0.03CV + 10µA I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 2 minutes			
Low Temperature Characteristics Impedance Ratio(MAX)	Rated voltage (V)	400	420 ~ 450	
	Z(-25°C)/Z(+20°C)	5	6	
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.			
	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 the rated voltage applied for 1,000 hours at 105°C without voltage applied.			
	Capacitance change	≒ ±20% of the initial value		
	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)



ΦD	10	12.5 L < 35	12.5 L ≥ 35	14.5
ΦD	ΦD + 0.5 Max			
Φd	0.6	0.6	0.8	0.8
F	5.0	5.0		7.5
a	L + 1.5 Max	≒ 35 L + 1.5Max ≒ 40 L + 2.0 Max		L + 2.0 Max

◆ PART NUMBER SYSTEM(Example : 450V 39µF)





PA Series

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

uF \ Vdc	400		420		450	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
33					10×50	340
39	10×45	370	10×50	360	10×55	380
47	10×50	420	10×55	430	12.5×40	440
56	10×55	470	12.5×40	480	12.5×45	490
68	12.5 ×40	540	14.5×40	520	12.5×50	550
					14.5×40	530
82	12.5×50	610	12.5×50	590	14.5×45	630
	14.5×40	570	14.5×45	590		
100	14.5×45	690	14.5×50	670	14.5×55	710
120	14.5×55	790				

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)				
	60(50)	120	500	1K	≥10K
400 ~ 450	0.80	1.00	1.25	1.40	1.50