

ALUMINUM ELECTROLYTIC CAPACITORS



PW Series

Downsize and high ripple version of PF series

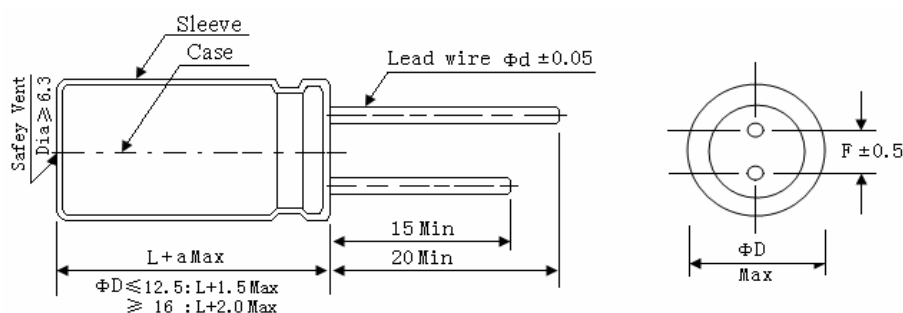
Load life 2,000 hours at 105°C



SPECIFICATIONS

Item	Performance Characteristics		
Category Temperature Range	-25 ~ +105℃		
Working Voltage Range	200 ~ 500Vdc		
Capacitance Range	10 ~ 470 μF		
Capacitance Tolerance	±20% (at 25℃ and 120Hz)		
Dissipation Factor (tanδ) (at 25℃, 120Hz)	Rated Voltage (V)	160 ~ 250	350 ~ 500
	tanδ(Max)	0.15	0.20
	The above values should be increased by 0.02 for every additional 1000μF		
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.		
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25℃ after the rated voltage applied for 2,000 hours at 105℃.		
	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℃ after the rated voltage applied for 1,000 hours at 105℃ 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	12.5	16	18
ϕD	$\phi D + 0.5 \text{ Max}$		$\phi D + 1.0 \text{ Max}$
ϕd	0.6	0.8	0.8
F	5.0	7.5	7.5

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

Vdc uF	200		250		400		450		500	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
10									12.5×20	117
15									12.5×25	144
22									12.5×30	180
33									16×25	279
47									18×25	360
68					16×30	480	16×36	460	18×36	495
							18×32	490		
82					16×32	500	16×40	510	18×40	575
					18×32	520	18×36	550		
100					16×36	560	18×40	650	18×45	648
					18×32	580				
120					16×40	660	18×45	740	18×51	693
					18×36	670				
150			16×32	620	18×40	770	18×51	800		
180			16×36	720	18×45	880				
220	16×36	760	16×40	810						
	18×32	810	18×36	830						
330	16×40	980	18×45	1070						
	18×36	1010								
470	18×45	1270								

RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Cap.(uF)	Frequency (Hz)				
		50/60	120	1K	10K	100K
200 ~ 500	10 ~ 220	0.80	1.00	1.40	1.40	1.40
	330 ~ 470	0.90	1.00	1.13	1.13	1.13