

# ALUMINUM ELECTROLYTIC CAPACITORS



## PZ Series

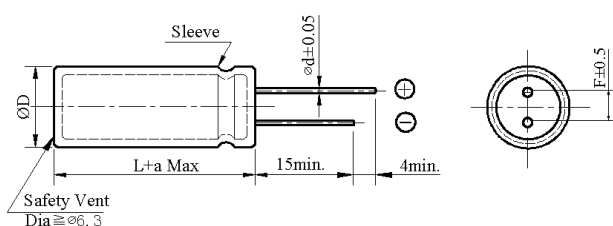
- Rated voltage range: 200 to 450Vdc, Capacitance: 18 to 270μF
- Load life 2,000 hours at 105°C
- Ideal for low profile power supply applications



### ◆ SPECIFICATIONS

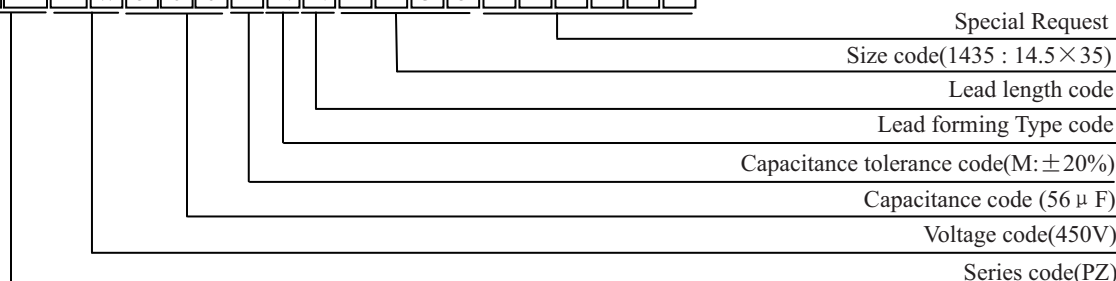
Item	Performance Characteristics	
Category Temperature Range	-40 ~ +105°C	-25 ~ +105°C
Working Voltage Range	200 ~ 400Vdc	420 ~ 450Vdc
Capacitance Range	27 ~ 270 μF	18 ~ 100 μF
Capacitance Tolerance	±20% (at 25°C and 120Hz)	
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V)	200    400    420    450
	tanδ(Max)	0.12    0.15    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.	
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 2,000 hours at 105°C.	
	Capacitance change	≒ ±20% of the initial value
	Dissipation factor(tanδ)	≒ 200% of the 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
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 + 1.5 Max ≥ 40 L + 2.0 Max		L + 2.0 Max

### ◆ PART NUMBERING SYSTEM (Example : 450V 56μF)



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

uF \ Vdc	200		400		420		450	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
18							10×30	190
22					10×30	205	10×35	215
27			10×30	240	10×35	245	10×40	250
33			10×35	270	10×40	280	12.5×30	300
39			10×40	295	10×45	295	10×50	315
			12.5×30	305	12.5×30	295	12.5×35	315
47			10×50	335	10×55	350	12.5×40	350
			12.5×35	335	12.5×35	350	14.5×30	350
56			12.5×40	380	12.5×40	390	14.5×35	395
					14.5×30	390		
68			12.5×50	435	12.5×50	440	12.5×50	400
			14.5×35	435	14.5×35	460	14.5×40	450
82	10×35	420	14.5×40	480	14.5×40	515	14.5×50	490
100	10×40	460	14.5×45	525	14.5×50	570		
120	10×50	530						
	12.5×30	530						
150	12.5×35	585						
180	12.5×40	675						
220	14.5×35	750						
270	14.5×40	865						

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Cap.(uF)	Frequency (Hz)			
		120	1K	10K	100K
200 ~ 450	18 ~ 82	1.00	1.50	1.75	1.80
	100 ~ 270	1.00	1.30	1.40	1.50