

AZ series

- Protective countermeasure against DC over-voltage.
- Load Life:105°C 2000 hours.
- RoHS Compliance
- DC過電壓安全對策，壽命保證 2000小時。



SPECIFICATIONS

Items 項 目	Characteristics 特 性			
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20℃)			
Operating Temperature Range 適用溫度範圍	-25 ~ +105℃			
Rated Voltage Range 額定電壓範圍	200VDC 、 400VDC 、 420VDC			
Leakage Current 洩漏電流	I ≤ 3√CV (μA) (After 5 minutes application of DC rated voltage, at 20 ℃)			
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃			
	Rated Voltage(V)	200	400	420
	tan δ(Max)	0.15	0.15	0.15
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.			
	Rated Voltage(V)	200	400	420
	Z(-25℃)/Z(20℃)	3	8	8
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105℃.			
	Capacitance Change	Within ± 20% of the Initial Value		
	tan δ	200% or less of Initial Specified Value		
	Leakage Current	Initial Specified Value or less		
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.			
	Capacitance Change	Within ± 15% of the Initial Value		
	tan δ	≤150% of the Initial Specified Value		
	Leakage Current	Initial Specified Value or less		
Standards 參照標準	IEC 60384-4(JIS C 5101-4)			

◆ DC over voltage test conditions

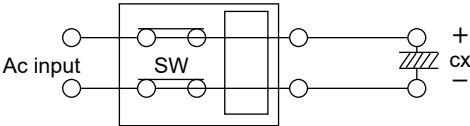
The vent will be operated and the capacitor shall become an open circuit without burning materials when the following excess DC voltage is applied.

According to the following experimental conditions, applying below rated voltage and rated current to be evaluated.

TEST DC VOLTAGE

Rated Voltage	Current Limit	Test DC Voltage
200 Vdc	1A	375 V
400 Vdc	1A	600 V
420 Vdc	1A	630 V
450 Vdc	1A	675 V

TEST CIRCUIT



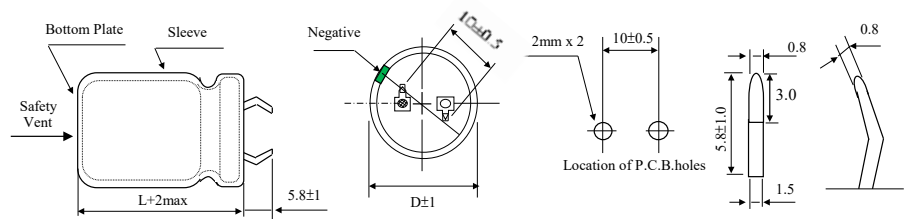
Determination:More than 80 percent of products explosion-proof vent operating normally, there is no any short-circuited, spark allowed.

Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Frequency (Hz)					
	50	60	120	500	1K	≥10K
200	0.80	0.80	1.00	1.10	1.14	1.18
400~420	0.80	0.80	1.00	1.05	1.10	1.15

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DIMENSIONS(mm)



STANDARD RATINGS

DxL(mm), R.C.(A rms) at 105°C 120 Hz.

Cap (μF)	V Item	200		400		420	
		D x L	R.C.	D x L	R.C.	D x L	R.C.
33				22x20	0.22	22x25	0.25
39				22x20	0.30		
47	22x20	0.35		22x25	0.35	22x25	0.35
				25.4x20	0.35		
				30x20	0.40		
56				22x25	0.38	22x25	0.38
				25.4x20	0.38		
68				22x25	0.40	22x30	0.45
				25.4x25	0.45		
				30x20	0.50	25.4x25	0.45
82				22x30	0.50	22x35	0.64
				25.4x25	0.50		
				30x20	0.50	25.4x30	0.64
100	22x20	0.50		22x35	0.55	22x40	0.69
				25.4x30	0.53		
				30x25	0.53	25.4x30	0.69
				35x20	0.55	30x25	0.69
120				22x40	0.60	22x45	0.75
						25.4x35	0.75
				25.4x30	0.60	30x30	0.75
				30x25	0.60	35x25	0.75
150				22x45	0.70	25.4x40	0.82
				25.4x35	0.70		
				30x30	0.70	30x30	0.82
				35x25	0.70	35x25	0.82
180	22x25	0.70		22x50	0.80	25.4x45	0.90
				25.4x40	0.80		
	30x20	0.70		30x30	0.80	30x35	0.90
				35x25	0.80	35x30	0.90
220	22x25	0.74		25.4x45	0.90	30x40	1.00
				30x35	0.90		
				35x30	0.90	35x35	1.00
270	22x30	0.90		30x40	0.98	30x45	1.10
	25.4x25	0.85					
	30x20	1.10				35x40	1.10

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STANDARD RATINGS

DxL(mm), R.C.(A rms) at 105°C 120 Hz.

Cap (μF)	V	200		400		420	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.
330		22x30	1.05	30x50	1.21	35x45	1.20
		25.4x30	1.05				
		30x25	1.05	35x40	1.21		
390		22x35	1.20	35x45	1.32		
		25.4x30	1.20				
		30x25	1.20				
470		22x40	1.30	35x50	1.45		
		25.4x35	1.30				
		30x25	1.35				
560		22x45	1.50				
		25.4x40	1.50				
		30x35	1.55				
		35x25	1.55				
680		25.4x50	1.70				
		30x40	1.70				
		35x30	1.70				
820		30x45	1.99				
		35x35	1.99				
1000		30x50	2.10				
		35x40	2.10				
1200		35x50	2.30				