

AZ series

- No sparks against DC over-voltage.
- Endurance with ripple current: 105°C 2,000 hours.
- RoHS Compliance.
- DC過電壓安全對策，壽命保證2,000小時。



SPECIFICATIONS

Items 項目	Characteristics 特 性			
Capacitance Tolerance 靜電容量誤差	± 20% (120Hz, 20°C)			
Operating Temperature Range 適用溫度範圍	-25 ~ +105°C			
Rated Voltage Range 工作電壓範圍	200V, 400V, 420V			
Leakage Current 洩漏電流	$I \leq 3\sqrt{CV} (\mu A)$ (After 5 minutes application of rated voltage)			
Dissipation Factor 散逸因素 (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C			
	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°C) / Z (20°C)	3	8	
Load Life 負荷壽命	2,000hours, with application of working voltage at 105°C			
	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	1,000hours, no voltage applied, at 105°C。 After Test: UR to be applied for 30 minutes, 24 to 48hours before measurement.			
	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	JIS C 5101-4-1 and JIS C 5101-2			

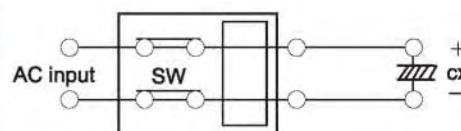
◆ DC over voltage test conditions

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

TEST DC VOLTAGE

Rated Voltage	Capacitance (μF)	Current Limit	Test DC Voltage
200Vdc	$C < 330$	4A	300/375Vdc
	$330 \leq C < 470$	5A	
	$470 \leq C$	7A	
400Vdc	$C < 100$	2A	500/600Vdc
	$100 \leq C < 220$	4A	
	$220 \leq C$	7A	
420Vdc	$C < 100$	2A	520/630Vdc
	$100 \leq C < 220$	4A	
	$220 \leq C$	7A	

TEST CIRCUIT



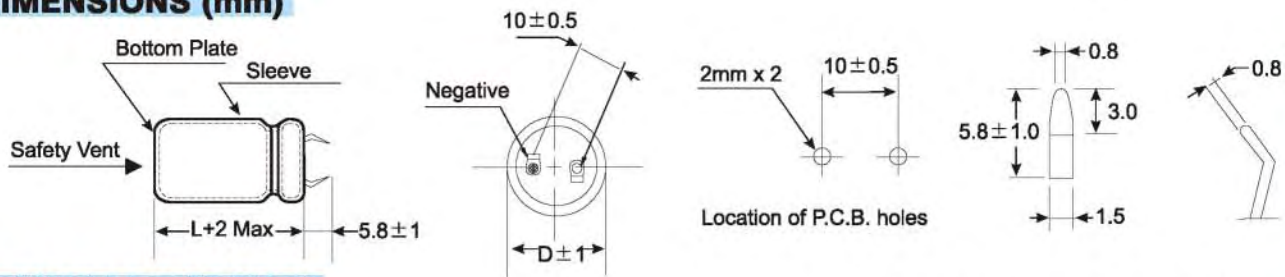
PERMISSIBLE RIPPLE CURRENT

Frequency Coefficient

WV (V)	Frequency (Hz)					
	50	60	120	500	1K	$\geq 10K$
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.: (mA rms) at 105°C, 120Hz.

Cap (μF)	WV(V) (Code)	200 (2D)		400 (2G)		420 (2M)	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.
33				22x20	220	22x25	250
39				22x20	300		
47	22x20	350		22x25	350	22x25	350
				25x20	350		
				30x20	400		
56				22x25	380	22x25	380
				25x20	380		
68				22x25	400	22x30	450
				25x25	450		
				30x20	500	25x25	450
82				22x30	500	22x35	640
				25x25	500		
				30x20	500	25x30	640
100	22x20	500		22x35	550	22x40	690
				25x30	530	25x30	690
				30x25	530		
120				35x20	550	30x25	690
				22x40	600	22x45	750
				25x30	600	25x35	750
				30x25	600	30x30	750
						35x25	750
150				22x45	700	25x40	820
				25x35	700	30x30	820
				30x30	700		
				35x25	700	35x25	820
				22x50	800	25x45	900
180	22x25	700		25x40	800	30x35	900
	30x20	700		30x30	800		
				35x25	800	35x30	900
220	22x25	740		25x45	900	30x40	1000
				30x35	900		
				35x30	900	35x35	1000
270	22x30	900		30x40	980	30x45	1100
	25x25	850				35x40	1100
	30x20	1100					
330	22x30	1050		30x50	1210	35x45	1200
	25x30	1050					
	30x25	1050		35x40	1210		
390	22x35	1200		35x45	1320		
	25x30	1200					
	30x25	1200					
470	22x40	1300		35x50	1450		
	25x35	1300					
	30x25	1350					
560	22x45	1500					
	25x40	1500					
	30x35	1550					
	35x25	1550					
680	25x50	1700					
	30x40	1700					
	35x30	1700					
820	30x45	1990					
	35x35	1990					
1000	30x50	2100					
	35x40	2100					
1200	35x50	2300					