

Aluminum Electrolytic Capacitor

JU series

- High temperature, high ripple current at high frequency.
- Specially designed for electronic ballast and energy saving lamp.
- Load Life: 2,000~3,000 hours.
- RoHS Compliance
- 耐高温、高紋波及高頻率。
- 專為電子整流器和節能燈。
- 2,000~3,000小時長壽命品。

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	- 40 ~ +130℃							- 40 ~ +130℃			- 25 ~ +130℃		
Rated Voltage Range 額定電壓範圍	10 ~ 100VDC							160 ~ 250VDC			350 ~ 450VDC		
Leakage Current 洩漏電流	I ≤ 0.01CV or 2 (μA) which is greater.(After 2 minutes application of DC rated voltage, at 20 ℃)							I ≤ 0.03CV +20 (μA) (After 3 minutes application of DC rated voltage, at 20 ℃)					
Leakage Current 散逸因素(tan δ)	Measurement Frequency:120Hz. Temperature: 20℃												
	Rated Voltage(V)	10	16	25	35	50	63	100	160	200	250	350 ~ 450	
	tanδ (Max)	0.20	0.16	0.14	0.12	0.10	0.10	0.10	0.15	0.20	0.20	0.24	
	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF .												
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency:120Hz												
	Rated Voltage(V)	10	16	25	35	50	63	100	160	200	250	350 ~ 450	
	Z(-25℃) / Z(20℃)	3	2	2	2	2	2	3	3	3	3	6	
	Z(-55℃) / Z(20℃)	8	6	4	4	4	4	4	6	6	6	-	
Load Life 負荷壽命	3,000 hours, with application of rated voltage at 130℃.(ØD≤8mm,2,000hrs)												
	Capacitance Change	within ±25% of 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 1,000hours 130℃ without voltage applied. Before the measurement. The Capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.												
	Capacitance Change	within ±25% of Initial Value											
	tan δ	200% or less of Initial Specified Value											
	Leakage Current	Initial Specified Value or less											
Standards 參照標準	JIS C 5101-4 (IEC 60384)												

Frequency Coefficient of Permissible Ripple Current

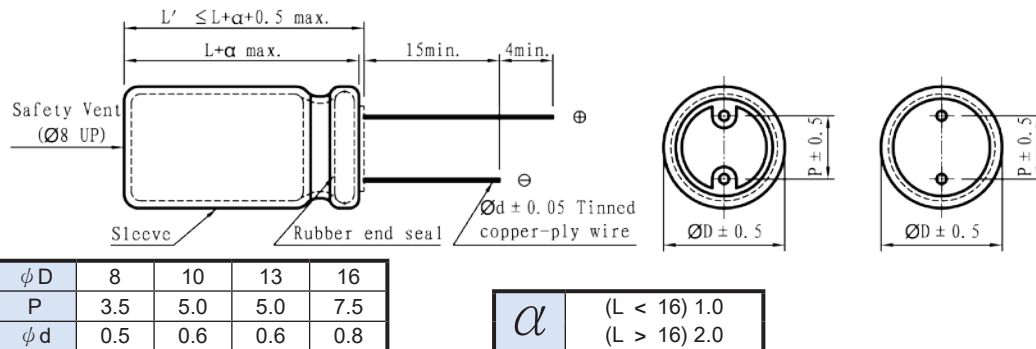
Rated Voltage (V)	Capacitance (μF)	Frequency (Hz)			
		50	120	1K	$\geq 10K$
≤ 100	< 100	0.50	0.70	0.85	1.00
	100 ~ 1500	0.65	0.75	0.90	1.00
	> 1500	0.75	0.80	0.95	1.00
≥ 160	1.8~5.6	0.20	0.40	0.80	1.00
	6.8~100	0.40	0.75	0.90	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. when long life performance is required in actual use. The rms ripple current has to be reduced.

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DIMENSIONS(mm)



STANDARD RATINGS

D×L (mm); R.C.: (mA rms) at 130°C, 100KHz.

Cap (μF)	V (Code)	10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
3.3										8x12	70		
4.7										8x12	100		
10										8x12	200	8x12	200
22										8x12	260	8x12	250
33										8x12	300	10x13	400
47										8x12	300	10x16	450
100		8x12	340	8x12	340	8x12	340	10x13	620	10x13	520	13x21	820
220		8x12	340	10x13	620	10x13	620	10x16	800	10x20	890	13x25	1000
330		10x13	580	10x13	620	10x16	800	10x20	960	13x21	1000	16x26	1500
470		10x13	620	10x16	800	10x20	960	13x21	1430	13x25	1200	16x32	1850
1000		10x20	960	13x21	1430	13x25	1430	16x26	1900	16x32	2180		
2200		13x25	1430	16x26	1900	16x32	2300	16x36	2550				
3300		16x26	1900	16x32	2300	16x36	2550						
4700		16x32	2300	16x36	2550								

Cap (μF)	V (Code)	100 (2A)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
1.8										10x16	62	10x16	60	10x16	58
2.2										10x16	70	10x16	68	10x16	66
3.3										10x16	84	10x16	82	10x16	80
4.7		8x12	80	8x12	80	8x12	80	10x16	70	10x20	105	10x20	100	10x20	90
5.6		8x12	118	8x12	100	8x16	118	10x16	130	10x20	150	13x21	160	13x21	150
6.8		8x12	145	8x14	130	8x16	145	10x16	150	13x21	186	13x21	186	13x21	176
10		8x12	200	10x16	200	10x16	200	10x20	224	13x21	278	13x21	278	16x26	510
22		8x12	220	10x20	300	13x21	400	13x21	400	13x25	430	13x25	430	16x32	630
33		10x13	260	13x21	400	13x21	480	13x25	510	16x26	600	16x26	600		
47		10x16	330	13x25	528	13x25	528	16x26	620	16x32	650	16x32	650		
100		13x21	670	16x26	716										
220		16x26	1100												
330		16x32	1300												

※ 13mm may be replaced by 12.5mm upon customer's request.