

Aluminum Electrolytic Capacitors

YUSCON®

LZ Series

LOW IMPEDANCE

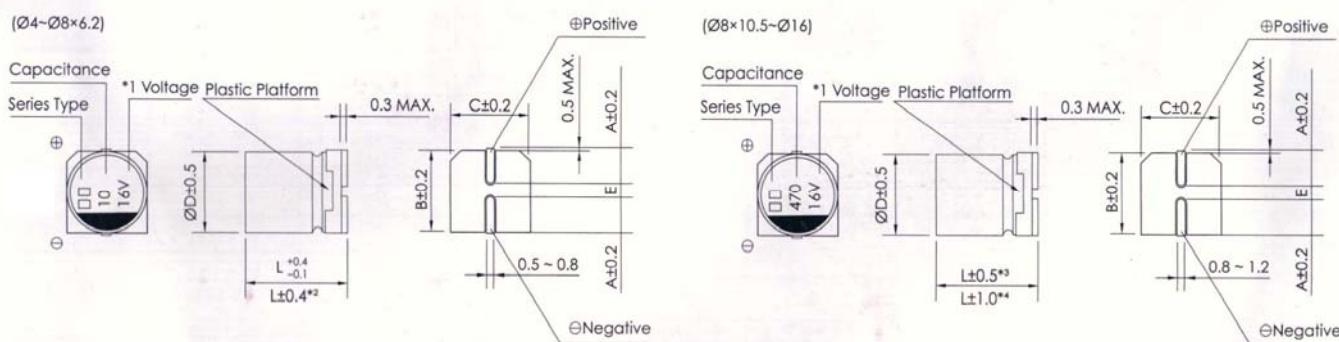


- Low impedance with temperature -55~+105 °C
- Load life of 1000~2000 hours
- Comply with the RoHS directive

SPECIFICATIONS

Item	Characteristics											
Operating Temperature Range	-55 ~ +105 °C											
Voltage Range	6.3 ~ 50 V											
Capacitance Range	1 ~ 4700 μ F											
Capacitance Tolerance	- 20% ~ + 20% at 20 °C, 120Hz											
Leakage Current	Leakage current($\phi 4 \sim \phi 10$) $\leq 0.01CV$ or 3uA,whichever is greater (after 2 minutes application of rated voltage) Leakage current($\phi 12.5 \sim \phi 16$) $\leq 0.03CV$ or 4uA,whichever is greater (after 1 minute application of rated voltage)											
Dissipation Factor($\tan \delta$)	Measurement frequency:120Hz ,Temperature:20°C											
	Rated Voltage (V)	6.3	10	16	25	35	50					
	$\tan \delta$ (max.)	$\phi 4 \sim \phi 10$	0.22	0.19	0.16	0.14	0.12					
Stability at Low Temperature	$\phi 12.5 \sim \phi 16$	0.26	0.22	0.18	0.16	0.14	0.12					
	Measurement frequency:120Hz											
	Rated Voltage (V)			6.3	10	16	25					
	Impedance Ratio ZT/Z20(max.)	$\phi 4 \sim \phi 10$	Z(- 25 °C) / Z(+ 20 °C)	2	2	2	2					
		Z(- 55 °C) / Z(+ 20 °C)	5	4	4	3	3					
Load Life	$\phi 12.5 \sim \phi 16$	Z(- 25 °C) / Z(+ 20 °C)	3	3	2	2	2					
		Z(- 55 °C) / Z(+ 20 °C)	10	8	6	4	3					
	After 2000 hrs.(1000 hrs.for $\phi 4 \sim \phi 6.3 \times 5.4$) application of the rated voltage at 105°C, they meet the characteristics listed below.											
	Capacitance Change	Within $\pm 20\%$ of initial value										
Shelf Life	Dissipation Factor	200% or less of initial specified value										
	Leakage Current	initial specified value or less										
	After leaving capacitors under no load at 105 °C for 1000 hours,they meet the specified value for load life characteristics listed above.											
Resistance to Soldering Heat	After reflow soldering and restored at room temperature, they meet the characteristics listed below.											
	Capacitance Change	Within $\pm 10\%$ of initial value										
	Dissipation Factor	initial specified value or less										
	Leakage Current	initial specified value or less										
Marking	Black print on the case top.											

DRAWING (Unit: mm) 外形圖



*1. Voltage mark for 6.3V is [6V]

6.3V 的產品標記為 [6V]

*2. Applicable to Ø6.3x7.7

適用於 Ø6.3x7.7

*3. Applicable to Ø8x10.5~Ø10

適用於 Ø8x10.5~Ø10

*4. Applicable to Ø12.5~Ø16

適用於 Ø12.5~Ø16

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●DIMENSIONS(Unit:mm)

(ΦDxL)	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×6.2	8×10.5	10×10.5	10×13.5	12.5×13.5	12.5×16	16×16.5
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	4.7	4.7	5.5
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
E±0.2	1.0	1.3	2.2	2.2	3.1	3.1	4.4	4.4	4.4	4.4	6.7
L	5.4	5.4	5.4	7.7	6.2	10.5	10.5	13.5	13.5	16.0	16.5

■DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT &IMPEDANCE

WV(Vdc) μF		6.3			10			16		
10	100							4×5.4	3.0	60
15	150							5×5.4 (4×5.4)	1.8 (3.0)	95 (60)
22	220	4×5.4	3.0	60	5×5.4 (4×5.4)	1.8 (3.0)	95 (60)	5×5.4 (4×5.4)	1.8 (3.0)	95 (60)
33	330	5×5.4 (4×5.4)	1.8 (3.0)	95 (60)	5×5.4 (4×5.4)	1.8 (3.0)	95 (60)	6.3×5.4 (5×5.4)	1.0 (1.8)	140 (95)
47	470	5×5.4 (4×5.4)	1.8 (3.0)	95 (60)	6.3×5.4 (5×5.4)	1.0 (1.8)	140 (90)	6.3×5.4 (5×5.4)	1.0 (1.8)	140 (95)
68	680	6.3×5.4 (5×5.4)	1.0 (1.8)	140 (95)	6.3×5.4	1.0	140	6.3×7.7 (6.3×5.4)	0.6 (1.0)	230 (140)
100	101	6.3×5.4 (5×5.4)	1.0 (1.8)	140 (95)	6.3×7.7 (6.3×5.4)	0.6 (1.0)	230 (140)	6.3×7.7 (6.3×5.4)	0.6 (1.0)	230 (140)
150	151	6.3×7.7 (6.3×5.4)	0.6 (1.0)	230 (140)	6.3×7.7 (6.3×5.4)	0.6 (1.0)	230 (140)	6.3×7.7	0.6	230
220	221	6.3×7.7 (6.3×5.4)	0.6 (1.0)	230 (140)	6.3×7.7	0.6	230	8×10.5 (6.3×7.7)	0.30 (0.6)	450 (230)
330	331	6.3×7.7	0.6	230	8×10.5	0.30	450	10×10.5 (8×10.5)	0.15 (0.30)	670 (450)
470	471	8×10.5	0.30	450	8×10.5	0.30	450	10×10.5 (8×10.5)	0.15 (0.30)	670 (450)
680	681	8×10.5	0.30	450	10×10.5	0.15	670	10×10.5	0.15	670
1000	102	10×10.5 (8×10.5)	0.15 (0.30)	670 (450)	10×10.5	0.15	670	10×10.5	0.15	670
1500	152	10×10.5 (10×10.5)	0.13 (0.15)	750 (670)	12.5×13.5 (10×13.5)	0.11 (0.13)	820 (750)	12.5×13.5	0.11	820
2200	222	12.5×13.5 (10×13.5)	0.11 (0.13)	820 (750)	12.5×16	0.09	950	16×16.5 (12.5×16)	0.08 (0.09)	1260 (950)
3300	332	12.5×16 (12.5×13.5)	0.09 (0.11)	950 (820)	16×16.5	0.08	1260	16×16.5	0.08	1260
4700	472	16×16.5	0.08	1260	16×16.5	0.08	1260			

Rated Ripple Current (mArms) at 105°C 120Hz

Impedance(Ω) at 20°C 100KHZ

Case Size: Φ D x L (mm)

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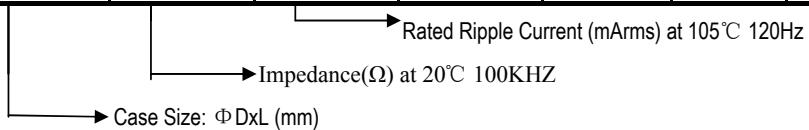
		25			35			50		
		WV(Vdc)	µF							
1	0 10				4x5.4	3.0	60	4x5.4	5.0	30
1.5	1R5				4x5.4	3.0	60	4x5.4	5.0	30
2.2	2R2				4x5.4	3.0	60	4x5.4	5.0	30
3.3	3R3				4x5.4	3.0	60	4x5.4	3.0	30
4.7	4R7	4x5.4	3.0	60	4x5.4	3.0	60	5x5.4	2.0	50
6.8	6R8	4x5.4	3.0	60	5x5.4	1.8	95	6.3x5.4	2.0	70
10	100	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	6.3x5.4	2.0	70
15	150	6.3x5.4	1.8	95	5x5.4	1.8	95	6.3x5.4	1.0 (2.0)	70
22	220	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (90)	6.3x7.7 (6.3x5.4)	1.0	120 (70)
33	330	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)	6.3x5.4	1.0	140	6.3x7.7	1.0	120
47	470	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7	1.0	120
68	680	6.3x7.7	0.6	230	6.3x7.7	0.60	230	8x10.5	0.60	300
100	101	6.3x7.7	0.6	230	8x10.5	0.30	450	8x10.5	0.60	300
150	151	8x10.5 (6.3x7.7)	0.30 (0.6)	450 (230)	8x10.5	0.30	450	10x10.5	0.30	500

→ Rated Ripple Current (mA rms) at 105 °C 120Hz
 → Impedance(Ω) at 20°C 100KHZ
 → Case Size: Φ DxL (mm)

LZ Series

■ DIMENSIONS MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV(Vdc) μF		6.3			10			16		
220	221	8x10.5	0.30	450	10x10.5 (8x10.5)	0.15 (0.30)	670 (450)	10v10.5	0.30	500
330	331	10x10.5 (8x10.5)	0.15 (0.30)	670 (450)	10x10.5	0.15	670	16x16.5 (12.5x13.5) (10x13.5)	0.12 (0.20) (0.25)	1060 (650) (580)
470	471	10x10.5	0.15	670	10x10.5	0.15	670	16x16.5 (12.5x16)	0.12 (0.15)	1060 (700)
680	681	10x13.5	0.13	750	12.5x13.5 (10x13.5)	0.11 (0.13)	820 (750)	16x16.5	0.12	1060
1000	102	16x16.5 (12.5x13.5)	0.08 (0.11)	1260 (820)	16x16.5 (12.5x16)	0.08 (0.09)	1260 (950)			
1500	152	12.5x16	0.09	950	16x16.5	0.08	1260			
2200	222	16x16.5	0.08	1260						


 Case Size: Φ DxL (mm)
 Impedance(Ω) at 20°C 100KHZ
 Rated Ripple Current (mAmps) at 105°C 120Hz

□ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency			50HZ	120HZ	300HZ	1KHZ	10KHZ~
Coefficient	Φ4~Φ10	1~68μF	0.35	0.50	0.64	0.83	1.00
		100~2200μF	0.40	0.55	0.70	0.85	1.00
	12.5~Φ16	~680μF	0.45	0.65	0.80	0.90	1.00
		1000~4700μF	0.65	0.85	0.95	1.00	1.00