Aluminum Electrolytic Capacitors

YUSCON®

KP Series

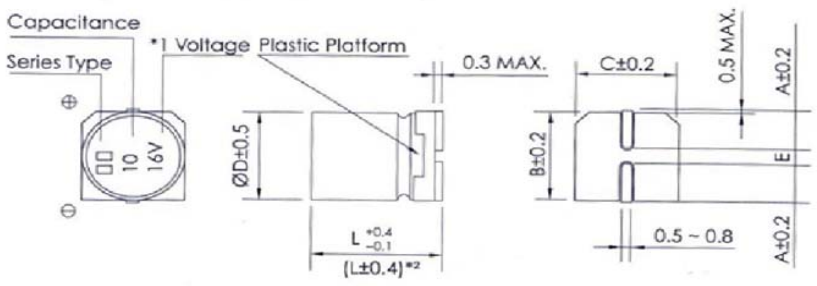
BI-POLARIZED,WIDE TEMPERATURE

- ●Bi-polarized with wide temperature range -55℃~ +105℃
- ●Load life of 1000 hours
- ●Comply with the RoHS directive

■ SPECIFICATIONS

Item	Characteristics					
Operating Temperature Range	- 55 ~ +105℃					
Voltage Range	6.3 ~ 50 V					
Capacitance Range	0.1 ~ 47 μ F					
Capacitance Tolerance	- 20% ~ + 20% at 20℃, 120Hz					
Leakage Current	Leakage current ≤0.005CV or10uA,whichever is greater (after 2 minutes application of rated voltage)					
Dissipation Factor(tanδ)	Measurement frequency:120Hz ,Temperature:20℃					
	Rated Voltage (V)	6.3	10	16,25	35,50	
	tan δ(max.)	0.24	0.20	0.17	0.15	
Stability at Low Temperature	Measurement frequency:120Hz					
	Rated Voltage (V)		6.3	10	16,25	35,50
	Impedance Ratio ZT/Z20(max.)	Z(-25℃)/Z(+20℃)	4	3	2	2
		Z(-55℃)/Z(+20℃)	8	6	4	3
Load Life	After 1000 hours application of the rated voltage at 105°C, (the polarity needs to exchange every 250hours),they meet the characteristics listed below.					
	Capacitance Change	Within ±20% of initial value				
	Dissipation Factor	200% or less of initial specified value				
	Leakage Current	initial specified value or less				
Shelf Life	After leaving capacitors under no load at 105℃ for 1000 hours,they meet the specified value for load life characteristics.					
Resistance to Soldering Heat	After reflow soldering and restored at room temperature, they meet the characteristics listed below.					
	Capacitance Change	Within ±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的產品標識為 [6V]

*2. Applicable to Ø6.3x7.7 適用於Ø6.3x7.7

KP Series

●DIMENSIONS(Unit:mm)

size(ΦDxL)	4×5.4	5×5.4	6.3×5.4
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E±0.2	1.0	1.3	2.2
L	5.4	5.4	5.4

■DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

Cap (μF) \ WV(Vdc)		6.3		10		16		25		35		50	
0.1	**0R1**											4×5.4	1
0.22	**R22**											4×5.4	2
0.33	**R33**											4×5.4	2.8
0.47	**R47**											4×5.4	4
1	**10**											4×5.4	8.4
2.2	**2R2**									4×4.5	8.4	5×5.4	13
3.3	**3R3**							5×5.4	12	5×5.4	16	5×5.4	17
4.7	**4R7**					4×5.4	12	5×5.4	16	5×5.4	18	6.3×5.4	20
10	**100**			4×5.4	17	5×5.4	23	6.3×5.4	27	6.3×5.4	29		
22	**220**	5×5.4	28	6.3×5.4	33	6.3×5.4	37						
33	**330**	6.3×5.4	37	6.3×5.4	41	6.3×5.4	49						
47	**470**	6.3×5.4	45										

Rated Ripple Current (mArms) at 105℃ 120Hz

Case Size: ΦDxL (mm)

☐FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency	50HZ	120HZ	300HZ	1KHZ	10KHZ~
Coefficient	0.70	1.00	1.17	1.36	1.50