

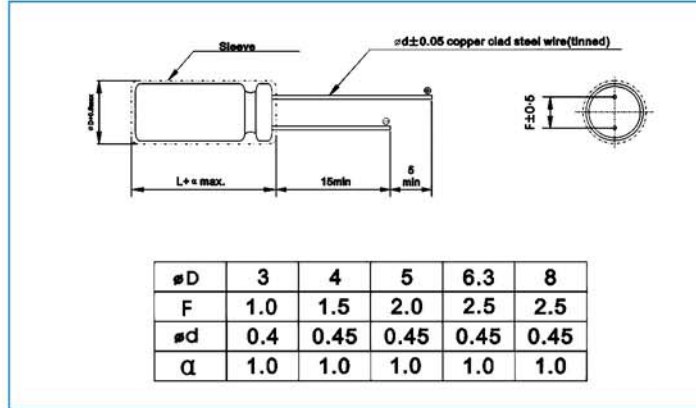
KC3 Miniature Aluminium Electrolytic Capacitors

5mm L, Standard Capacitors, Series KC3.

Diameters from $\Phi 3$ to $\Phi 8$ mm and a height of 5mm

Outline Drawing

Unit: mm



Photo



Marking color: white print on black sleeve

Specifications

No.	Item	Performance
1	Temperature range (°C)	-40 to +85
2	Leakage current (μA)	Less than 0.01CV or 3 whichever is larger (after two minutes) C: Rated Capacitance (μF); V: Rated voltage (V) 20°C
3	Capacitance tolerance (%)	± 20 (20°C, 120Hz)
4	Tangent of the loss angle (Tan δ)	Rated voltage (V) 4 6.3 10 16 25 35 50
		Tan δ (max) 0.35 0.24 0.20 0.16 0.14 0.12 0.10
5	Low temperature characteristics	Rated voltage (V) 4 6.3 10 16 25 35 50
		Impedance ratio (max) $Z_{(-25^\circ C)}/Z_{(+20^\circ C)}$ 7 4 3 2 2 2 2
		$Z_{(-40^\circ C)}/Z_{(+20^\circ C)}$ 15 8 6 4 4 3 3
6	Endurance (85°C) (Applied ripple current)	Test time 1000hours
		Leakage current The initial specified value or less
		Percentage of capacitance change Within $\pm 20\%$ of initial value
		Tangent of the loss angle 200% or less of the initial specified value
7	Shelf life (85°C)	Test time: 500 hours; other items are the same as those for the endurance. Voltage application treatment: According to JIS-C-5102
8	Applicable standards	JIS-C-5102 and JIS-C-5141

Coefficient of Frequency for Ripple Current

Frequency (Hz)	50 · 60	120	1K	10K · 100K
Rated voltage (v)				
4 to 16	0.80	1.00	1.10	1.20
25 to 35	0.80	1.00	1.50	1.70
50	0.80	1.00	1.60	1.90

Coefficient of Temperature for Ripple Current

Temperature(°C)	45	50	70	85
Coefficient	1.80	1.50	1.30	1.00

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DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: Φ DXL(mm)

Ripple Current: mA/rms at 120Hz,85°C

V.DC μ F Contents	4V		6.3V		10V		16V		25V		35V		50V												
	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA											
0.1													→	4X5(3X5)	1(1)										
0.22														→	4X5(3X5)	2(2)									
0.33															→	4X5(3X5)	3(2.8)								
0.47																→	4X5(3X5)	5(4)							
1																	→	4X5(3X5)	8.7(7)						
2.2																		→	4X5(3X5)	8.7(7)					
3.3																			→	4X5(3X5)	11(10)				
4.7																				→	4X5(3X5)	14(11)			
10																					→	4X5(3X5)	17(13)		
22																						→	4X5	22	
33																							→	4X5	22
33	4X5	27	4X5	34	5X5	41	5X5	49	6.3X5	52	6.3X5	52	6.3X5	52	8X5	66									
47	4X5	34	5X5	37	6.3X5	50	6.3X5	58	6.3X5	58	8X5	72													
100	5X5	55	6.3X5	62	6.3X5	70	6.3X5	99	8X5	99															
220	6.3X5	74	8X5	104	8X5	120																			
330	8X5	142	8X5	145																					