

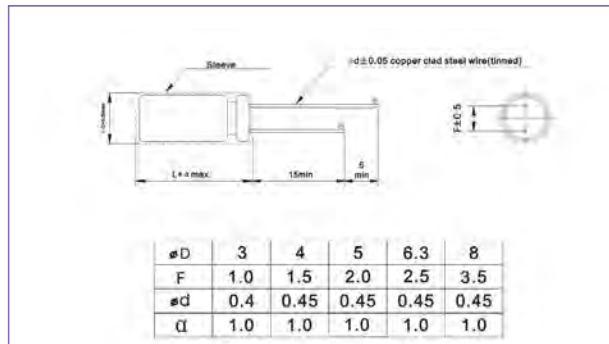
KC3 Miniature Aluminum Electrolytic Capacitors

5mm L, Standard Capacitors, Series KC3.

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

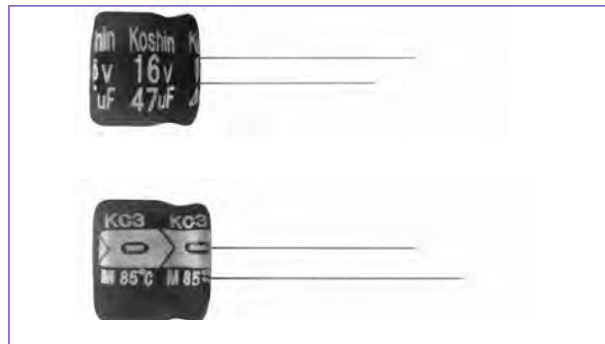
Outline Drawing

Unit: mm



Photo

ROSH



Marking color: black print on yellow 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	20°C, 120Hz
		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	120Hz
		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		500hours							
		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							
8	Applicable standards	JIS-C-5102 and JIS-C-5141									

Coefficient of Frequency for Ripple Current

Rated voltage (v) \ Frequency (Hz)	50 · 60	120	1K	10K · 100K
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: Φ DXL(mm)

Ripple Current: mA/rms at 120Hz, 85°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC Contents μ F	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)	4X5	10
3.3									4X5(3X5)	11(10)	4X5	12	4X5	13	
4.7							4X5(3X5)	14(11)	4X5	14	4X5	17	5X5	20	
10					4X5(3X5)	17(13)	4X5	23	5X5	27	5X5	27	6.3X5	31	
22			4X5	22	5X5	30	4X5	35	6.3X5	42	6.3X5	46	6.3X5	46	
33	4X5	27	4X5	34	5X5	41	5X5	49	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	8X5	99	8X5	99					
220	6.3X5	74	8X5	104	8X5	120									
330	8X5	142	8X5	145											