

KLS Miniature Aluminum Electrolytic Capacitors

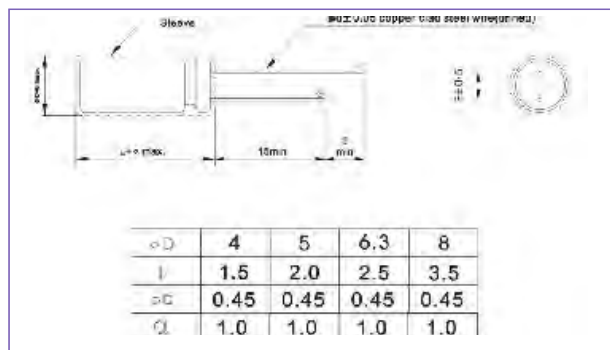
7mm L, 85°C Low Leakage Current Miniature Capacitors, Series KLS.

Diameter from $\Phi 4$ to $\Phi 8$ and height of 7mm

Guaranteed 1000 hours at 85°C

Outline Drawing

Unit: mm



Photo

ROSH



Marking color: black print on yellow sleeve

Ultra-miniature Type

Specifications

No.	Item	Performance									
1	Temperature range(°C)	-40 to + 85									
2	Leakage current (μ A)	Less than 0.002CV or 0.3 whichever is larger (after two minutes) C: Capacitance(μ F); 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	63	20°C ,120Hz
		Tan δ (max)	0.35	0.24	0.20	0.16	0.14	0.12	0.10	0.09	
5	Low temperature characteristics	Rated voltage (V)	4	6.3	10	16	25	35	50	63	120Hz
		Impedance ratio (max)	$Z_{(-25^{\circ}\text{C})}/Z_{(+20^{\circ}\text{C})}$	6	4	3	3	2	2	2	
6	Endurance (85°C) (Applied ripple current)	Test time	1000 hours								
		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

Capacitance (μ F)	Frequency (Hz)				
	50•60	120	1K	10K	100K
CAP \leq 47	0.70	1.00	1.20	1.30	1.45
CAP > 47	0.80	1.00	1.10	1.15	1.20

Coefficient of Temperature for Ripple Current

Temperature(°C)	45	60	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		63V	
	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	Φ D×L	mA
0.1													4X7	3	4X7	3
0.22													4X7	5	4X7	5
0.33													4X7	6	4X7	6
0.47													4X7	7	4X7	7
1													4X7	10	4X7	10
2.2													4X7	16	5X7	19
3.3											4X7	18	4X7	20	6.3X7	29
4.7									4X7	19	5X7	21	5X7	24	6.3X7	36
10							4X7	27	5X7	29	6.3X7	36	6.3X7	40		
22					4X7	36	4X7	40	6.3X7	47	6.3X7	53				
33	4X7	33	4X7	41	5X7	44	5X7	55	6.3X7	63	8X7	71				
47	4X7	39	5X7	49	6.3X7	54	6.3X7	62	8X7	74						
100	6.3X7	59	6.3X7*	75	8X7	90	8X7	110								