

K3S Miniature Aluminium Electrolytic Capacitors

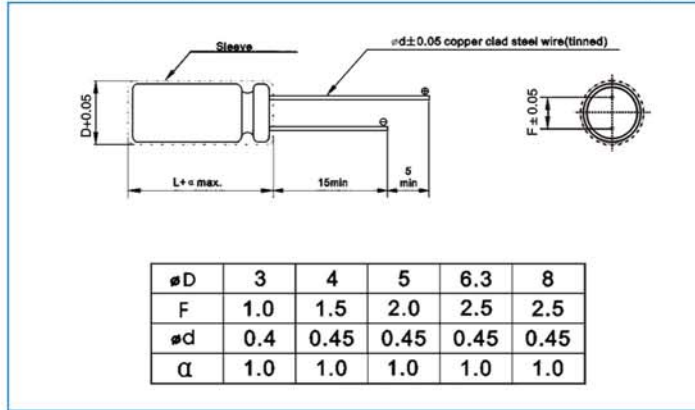
5mm L, 105°C Use Capacitors, Series K3S.

Diameters from $\Phi 3$ to $\Phi 8$ mm and a height of 5mm
Guaranteed 1000 hours at 105°C

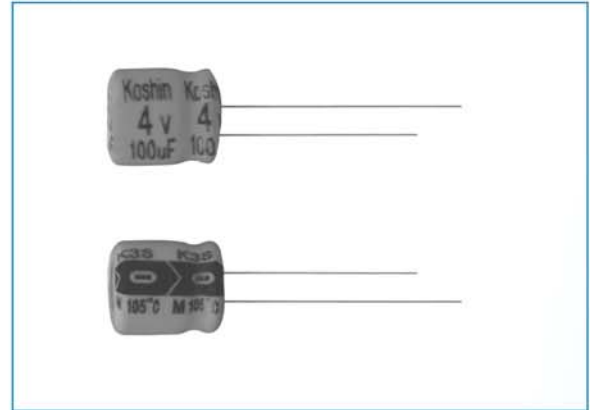


Outline Drawing

Unit: mm



Photo



Marking color: black print on yellow sleeve

Specifications

No.	Item	Performance								
1	Temperature range (°C)	-55 to +105								
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	0.28	0.24	0.20	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	
			$Z_{(-40^\circ C)}/Z_{(+20^\circ C)}$	15	8	6	4	4	3	3
6	Endurance (105°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 (105°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

Rated voltage (v)	Frequency (Hz)			
	50 · 60	120	1K	10K · 100K
4 to 16	0.80	1.00	1.15	1.25
25 to 35	0.80	1.00	1.25	1.41
50	0.80	1.00	1.35	1.50

Coefficient of Temperature for Ripple Current

Temperature(°C)	60	85	105
Coefficient	1.90	1.40	1.00

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Dimension: Φ DxL(mm)

Ripple Current: mA/rms at 120Hz, 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC μ F Contents	4V		6.3V		10V		16V		25V		35V		50V	
	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA
0.1													4X5(3X5)	1.0
0.22													4X5(3X5)	2.6
0.33													4X5(3X5)	3.2
0.47													4X5(3X5)	3.8
1													4X5(3X5)	6.2
2.2									3X5	7.5	4X5	8.7	4X5	10
3.3									4X5	11	4X5	12	4X5	13
4.7					4X5	13	4X5	14	4X5	15	4X5	17	5X5	20
10			4X5	18	4X5	14	4X5	23	5X5	27	5X5	27	6.3X5	31
22	4X5	20	4X5	21	5X5	27	5X5	30	6.3X5	42	6.3X5	46	6.3X5	46
33	4X5(5X5)	27	5X5	30	5X5	34	6.3X5	40	6.3X5	52	6.3X5	52	8X5	55
47	4X5(5X5)	34	5X5	36	6.3X5	43	6.3X5	48	6.3X5	58	8X5	68		
100	5X5(6.3X5)	50	6.3X5	56	6.3X5	70	8X5	80	8X5	85				
220	6.3X5	74	8X5	80	8X5	95								

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