Koshin

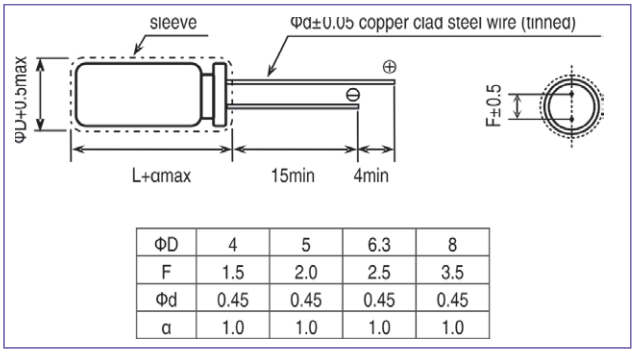
KCL Miniature Aluminum Electrolytic Capacitors

5mm L, Standard Capacitors, Low Leakage current, 85℃, Series KCL.

Diameters from Φ4 to Φ8 and a height of 5mm

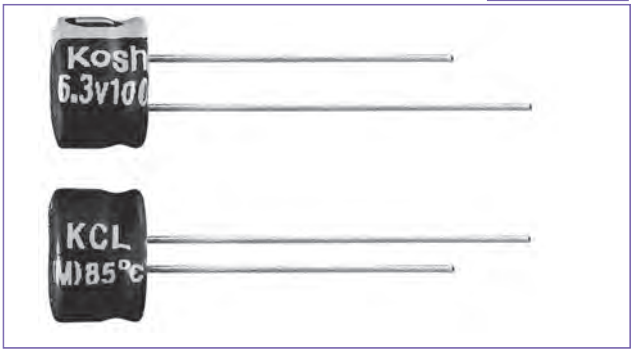
RoHS

Outline Drawing Unit: mm



ΦD	4	5	6.3	8
F	1.5	2.0	2.5	3.5
Φd	0.45	0.45	0.45	0.45
α	1.0	1.0	1.0	1.0

Photo



Marking color: white print on purple sleeve

Specifications

No.	Item	Performance								
1	Temperature range (℃)	-40 to +85								
2	Leakage current (μA)	Less than 0.002CV or 0.4 whichever is larger (after two minutes) C: Rated Capacitance (μF); V: Rated voltage (V) 20℃								
3	Capacitance tolerance (%)	±20 (20℃ ,120Hz)								
4	Tangent of the loss angle (Tan δ)	Rated voltage (V)	4	6.3	10	16	25	35	50	20℃ ,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) $Z_{(-25℃)}/Z_{(+20℃)}$	7	4	3	2	2	2	2	
		Impedance ratio (max) $Z_{(-40℃)}/Z_{(+20℃)}$	15	8	6	4	4	3	3	
6	Endurance (85℃) (Applied ripple current)	Test time	1000hours							
		Leakage current	The initial specified value or less							
		Percentage of capacitance change	Within ±20% of initial value							
		Tangent of the loss angle	200% or less of the initial specified value							
7	Shelf life (85℃)	Test time	500hours							
		Leakage current	The initial specified value or less							
		Percentage of capacitance change	Within ±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

Frequency (Hz) / Capacitance (μF)	50・60	120	1K	10K～
CAP ≤ 47	0.80	1.00	1.30	1.50
47<CAP	0.80	1.00	1.15	1.20

Coefficient of Temperature for Ripple Current

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

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DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: ΦDXL(mm)
Ripple Current: mA/rms at 120Hz,85℃

V.DC / Contents μF	4V		6.3V		10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1													4X5	1.0
0.22													4X5	2.0
0.33													4X5	2.8
0.47													4X5	4.0
1													4X5	8.4
2.2													4X5	13
3.3													5X5	17
4.7									4X5	16	4X5	18	5X5	20
10							4X5	25	5X5	27	5X5	29	6.3X5	33
22			4X5	28	4X5	32	5X5	37	6.3X5	42	6.3X5	46	8X5	60
33	5X5	28	5X5	37	5X5	41	6.3X5	49	6.3X5	52				
47	5X5	33	5X5	45	6.3X5	52	6.3X5	58						
100	6.3X5	56	6.3X5	70										