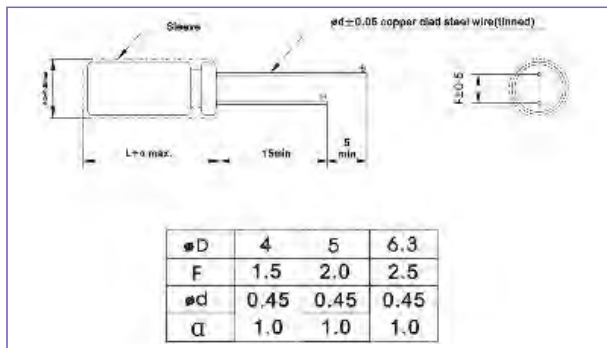


## K3A Miniature Aluminum Electrolytic Capacitors For Audio

For Audio Ultra Miniaturized (height:5mm) Series K3A  
A new foil and electrolyte makes powerful and clear sound.

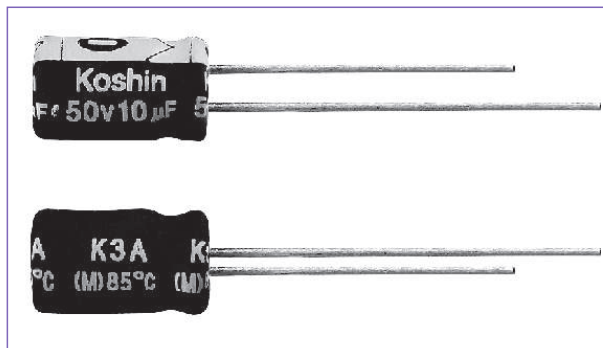
Outline Drawing

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 <sub>(-25°C)</sub> /Z <sub>(+20°C)</sub>	6	4	3	2	2	2	
6	Endurance (85°C) (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°C)	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

Capacitance (μF)	50	120	300	1K	10K ~
CAP ≤ 47	0.75	1.00	1.35	1.57	2.00
47 < CAP ≤ 220	0.80	1.00	1.23	1.34	1.50

### Coefficient of Temperature for Ripple Current

Temperature(°C)	55	60	70	85
Coefficient	1.65	1.50	1.30	1.00

## K3A Miniature Aluminum Electrolytic Capacitors For Audio

Dimension:  $\Phi$  DXL(mm)

Ripple Current: mA/rms at 120Hz, 85°C

### DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC Contents $\mu$ F	4V		6.3V		10V		16V		25V		35V		50V	
	$\Phi$ D×L	mA	$\Phi$ D×L	mA	$\Phi$ D×L	mA	$\Phi$ D×L	mA	$\Phi$ D×L	mA	$\Phi$ D×L	mA	$\Phi$ D×L	mA
0.1													4X5	1.1
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													4X5	17
4.7									4X5	16	4X5	18	5X5	20
10							4X5	23	5X5	27	5X5	29	6.3X5	33
22			4X5	28	5X5	33	5X5	37	6.3X5	42	6.3X5	46		
33	4X5	28	5X5	37	5X5	41	6.3X5	49	6.3X5	52				
47	4X5	33	5X5	45	6.3X5	52	6.3X5	58						
100	5X5	56	6.3X5	70										
220	6.3X5	96												