

# Koshin

## K2A,K3A Miniature Aluminium Electrolytic Capacitors For Audio

For Audio Ultra Miniaturized (height :7mm) Series K2A

For Audio Ultra Miniaturized (height :5mm) Series K3A

A new foil and electrolyte makes powerful and clear sound.

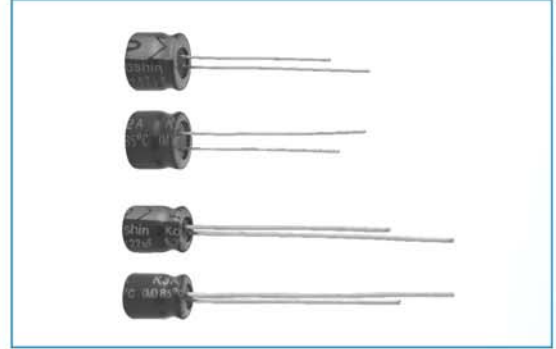
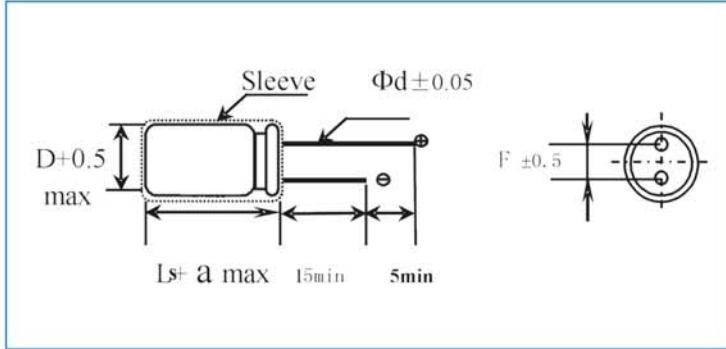
All lead wires are oxygen-free copper for extremely low distortion (Third high frequency distortion 10khz,0.1A,-120dB or less)

RoHS

Outline Drawing

Unit: mm

Photo



Marking color: white print on a black sleeve

ΦD	4	5	6.3	8	
L	5,7	5,7	5,7	5	7
F	1.5	2.0	2.5	2.5	3.5
Φd	0.45	0.45	0.45	0.45	
α	1.0	1.0	1.0	1.0	

### 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)		K2A	0.35	0.24	0.20	0.16	0.14	0.12	
5	Low temperature characteristics	Rated voltage (V)		4	6.3	10	16	25	35	50	(120Hz)
		Impedance ratio (max)	Z(-25°C)/Z(+20°C)	6	4	3	2	2	2	2	
			Z(-40°C)/Z(+20°C)	16	10	8	6	4	4	4	
7	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					
8	Shelf life (85°C)	Test time:1000 hours; other items are the same as those for the endurance. Voltage application treatment									
	Applicable standards	JIS-C-5101-1,-41998( IEC 60384-1 1992,-4 1985)									

### DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension:ΦDXL(mm)

V.DC μ F Contents	4V		6.3V		10V		16V		25V		35V		50V	
	K2A	K3A	K2A	K3A	K2A	K3A	K2A	K3A	K2A	K3A	K2A	K3A	K2A	K3A
0.1													→	4X7 4X5
0.22													→	4X7 4X5
0.33													→	4X7 4X5
0.47													→	4X7 4X5
1													→	4X7 4X5
2.2										→				4X7 4X5
3.3								→			4X7			4X7 4X5
4.7						→			4X7	4X5	4X7	4X5	4X7	5X5
10					→	4X5	4X7	4X5	4X7	5X5	4X7	5X5	5X7	6.3X5
22	→		4X7	4X5	4X7	5X5	4X7	5X5	5X7	6.3X5	5X7	6.3X5	6.3X7	---
33	4X7	4X5	4X7	5X5	4X7	5X5	5X7	6.3X5	6.3X7	6.3X5	6.3X7	---	8X7	---
47	4X7	4X5	4X7	5X5	5X7	6.3X5	5X7	6.3X5	6.3X7	---	8X7	---		---
100	5X7	5X5	5X7	6.3X5	6.3X7	6.3X5	6.3X7	---	8X7	---	---	---		---
220	6.3X7	6.3X5	6.3X7	---	8X7	---	---	---	---	---	---	---		---
330	8X7	---	8X7	---	---	---	---	---	---	---	---	---		---

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