

## KA3 Miniature Aluminum Electrolytic Capacitors For Audio

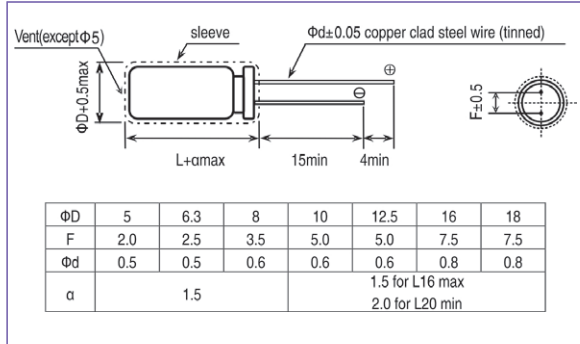
The newly developed audio use material makes clear sound a reality

All lead wires are copper clad steel

RoHS

Outline Drawing

Unit: mm



Photo



Marking color: white print on orange sleeve

### Specifications

No.	Item	Performance									
1	Temperature range(°C )	-40 to +85									
2	Leakage current ( $\mu$ A )	Less than 0.002CV or 0.3 whichever is larger (after two minutes) C: Capacitance( $\mu$ F);V: Rated voltage(V) 20°C									
3	Capacitance tolerance (%)	$\pm 20$ (20°C ,120Hz)									
4	Tangent of the loss angle (Tan $\delta$ )	Rated voltage (V)	6.3	10	16	25	35	50	63	100	20°C ,120Hz
		Tan $\delta$ (max)	0.28	0.24	0.20	0.16	0.14	0.12	0.11	0.10	
0.02 is added to every 1000 $\mu$ F increase over 1000 $\mu$ F											
5	Low temperature characteristics	Rated voltage (V)	6.3	10	16	25	35	50	63	100	120Hz
		Impedance ratio (max)	$Z_{(-25^\circ\text{C})}/Z_{(+20^\circ\text{C})}$	4	3	2	2	2	2	2	
		$Z_{(-40^\circ\text{C})}/Z_{(+20^\circ\text{C})}$	8	6	4	4	3	3	3	3	
6	Endurance (85°C ) (Applied ripple current)	Test time	2000 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	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								
8	Applicable standards	JIS-C-5102 and JIS-C-5141									

### Coefficient of Frequency for Ripple Current

Rated voltage (v)	Frequency (Hz)				
	CV( $\mu$ FXWV)	50•60	120	1K	10K•100K
6.3 to 16	All CV value	0.80	1.00	1.10	1.20
25 to 35	$\leq 1000$	0.80	1.00	1.50	1.70
	$>1000$	0.80	1.00	1.20	1.30
50 to 100	$\leq 1000$	0.80	1.00	1.60	1.90
	$>1000$	0.80	1.00	1.20	1.30

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Dimension:  $\Phi$ DXL(mm)

Ripple Current: mA/rms at 120Hz, 85°C

### DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC Contents $\mu$ F	6.3V		10V		16V		25V		35V		50V		63V		100V	
	$\Phi$ 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	$\Phi$ D×L	mA
0.1											5X11	3				
0.22											5X11	6				
0.33											5X11	9				
0.47											5X11	13			5X11	13
1											5X11	21			5X11	21
2.2											5X11	31			5X11	31
3.3											5X11	38			5X11	40
4.7											5X11	45	5X11	70	5X11	50
10					5X11	50	5X11	55	5X11	60	5X11	66	5X11	105	5X11	70
22					5X11	75	5X11	90	5X11	95	5X11	100	6.3X11	130	6.3X11	115
33					5X11	110	5X11	110	5X11	110	6.3X11	110	6.3X11	160	8X11.5	158
47					5X11	130	5X11	130	5X11	130	6.3X11	155	8X11.5	270	8X11.5	188
100	5X11	130	5X11	150	5X11	180	6.3X11	199	6.3X11	214	8X11.5	250	10X16	505	10X16	358
220	5X11	240	6.3X11	250	6.3X11	280	8X11.5	349	8X11.5	350	10X12.5	429	10X20	676	12.5X20	663
330	6.3X11	300	6.3X11	330	8X11.5	383	8X11.5	383	10X12.5	542	10X16	595	12.5X20	924	12.5X25	886
470	6.3X11	380	8X11.5	417	8X11.5	480	10X12.5	545	10X16	664	10X20	887	16X25	1710	16X25	1230
1000	8X11.5	580	10X12.5	650	10X16	791	10X20	996	12.5X20	1210	12.5X25	1400	18X35.5	2870	18X35.5	2210
2200	10X16	939	10X20	1080	12.5X20	1350	12.5X25	1660	16X25	1950	16X31.5	2340				
3300	12.5X20	1230	12.5X20	1430	12.5X25	1690	16X25	2030	16X31.5	2200	18X35.5	2810				
4700	12.5X20	1710	12.5X25	1780	16X25	2100	16X31.5	2650	18X35.5	2290						
6800	12.5X25	1930	16X25	2270	16X31.5	2480	18X35.5	3290								
10000	16X25	2450	16X31.5	2500	18X35.5	3130										
15000	16X31.5	2580	18X35.5	3100												
22000	18X35.5	3150														