

# Kingtronics®

## GKT-AB

### Aluminum Electrolytic Capacitor – Axial

## FEATURES

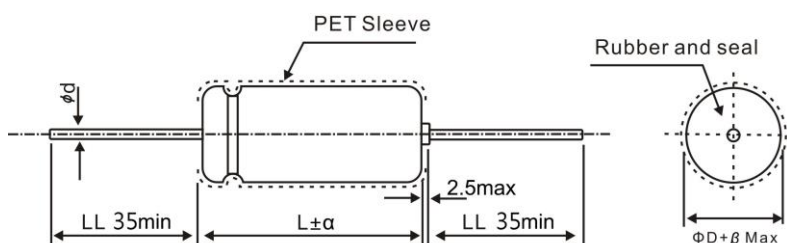
- ◆ Non-Polarized (Bi-Polarized)
- ◆ 105°C, 2,000 hours assured
- ◆ Non-polarized, suitable for crossover network of high-pitched and low-pitched sounds in high-fidelity sound systems.
- ◆ Have excellent frequency characteristics.



## SPECIFICATIONS

Operating Temperature Range (°C)	-40°C ~ +105°C		
Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M) (at 20°C, 1KHz)		
Voltage Range	50V, 100V.DC		
Leakage Current (20°C)	$I \leq 0.04CV + 3$ (u A) (after 5 minutes applying the rated DC working Voltage at 20°C) Where: I=Leakage Current (u A), C=rated Capacitance (u F), V= working Voltage (V)		
Dissipation Factor (tanδ) (at 20°C, 1KHz)	W.V	50	100
	tanδ	0.10	0.10
Surge Voltage (20°C)	W.V	50	100
	S.V	63	125
Low Temperature Stability	Impedance ratio at 120Hz		
	Rated Voltage (V)	50	100
	Z(-25°C) / +20°C	2	2
	Z(-40°C) / +20°C	3	3
Load Life Test	After 2,000 hours application of rated voltage at 105°C, capacitors meet the characteristics requirement listed as below:		
	Capacitance Change	Within ±20% of initial value	
	Dissipation Factor	Less than 200% of specified value	
Shelf Life Test	Leakage Current	Within specified value	
	After leaving capacitors under no load at 105°C for 1,000 hours and applying Voltage they meet the specified value for load life characteristics listed above.		

## DIMENSIONS (mm)



ØD	6.3	8	10	13	16	18	22	25
Ød	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8
α	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
β	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0

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**CASE SIZE & MAX RIPPLE CURRENT****DIMENSIONS: Diameter (ØD) x Length (L) mm**

V.DC	50V (1H)		100V (2A)	
µF	ØDxL	R.C	ØDxL	R.C
1.0	8x13	50	10x17	65
1.5	8x13	61	10x17	97
2.2	8x13	75	10x17	117
2.7	8x13	82	10x17	130
3.3	8x13	91	10x17	144
3.9	8x13	99	10x17	156
4.7	8x13	109	10x17	171
5.6	8x13	119	10x17	187
6.8	10x17	160	10x21	222
8.2	10x17	175	10x21	244
10	10x17	194	10x21	269
12	10x17	212	10x21	295
15	10x17	237	13x22	398
18	10x21	280	13x22	436
22	10x21	309	13x22	482
27	10x21	343	13x22	534
33	10x21	378	13x27	633
47	10x21	452	16x28	877
56	13x22	595	16x28	957
68	13x22	656	16x28	1055
82	13x27	774	16x28	1159
100	13x27	854	16x36	1413
120	13x27	936	16x36	1548
150	16x28	1214	16x36	1731
180	16x28	1329	18x36	2031
220	16x28	1471	22x43	2577

RIPPLE CURRENT. mA/rms at 105°C, 1KHz

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## Aluminum Electrolytic Capacitor – Axial

### HOW TO ORDER

<u>GKT</u>	<u>AB</u>	<u>1H</u>	<u>010</u>	<u>M</u>	<u>00800130</u>	<u>000</u>	<u>B</u>	<u>R</u>
Series	Sub Series	Rated Voltage	Capacitance	Capacitance Tolerance	Dimension	Lead Length	Packing	Pb
		1.	2.	3.	4.	5.	6.	7.

### NOTE:

#### 1. Rated Voltage

Code	1H	2A
Voltage	50V	100V

#### 2. Capacitance

Code	010	2R2	3R3	4R7	100	220	330	470	101	221
Capacitance (µF)	1	2.2	3.3	4.7	10	22	33	47	100	220

#### 3. Capacitance Tolerance

Code	J	K	M
Tolerance	±5%	±10%	±20%

#### 4. Dimension

Code	00630120	00800130	01300220	01600280
Dimension (mm)	6.3x12	8x13	13x22	16x28

#### 5. Lead Length

Code	000
Lead Length	Standard

#### 6. Packing

Code	B	T
Packing	Bulk	Tape & Reel

#### 7. Pb

Code	L	R
Pb	Leaded	RoHS

Note: Specifications are subject to change without notice.

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