

# Kingtronics®

## GKT-AC

### Aluminum Electrolytic Capacitor – Axial

## FEATURES

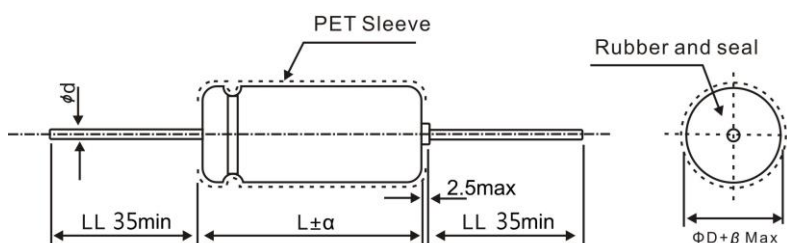
- ◆ Non-Polarized (Bi-Polarized)
- ◆ 105°C, 2,000 hours assured
- ◆ Non-polarized, suitable for use in circuits whose polarity is sometimes reversed or unknown.
- ◆ Excellent frequency characteristics in the audio range.



## SPECIFICATIONS

Operating Temperature Range (°C)	-40°C ~ +105°C		
Capacitance Tolerance	±10% (K), ±20% (M) (at 20°C, 120Hz)		
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, 120Hz)	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
Ød	0.6	0.6	0.6	0.6	0.8
α	1.5	1.5	2.0	2.0	2.0
β	0.5	0.5	1.0	1.0	1.0

**Kingtronics® International Company**

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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	6.3x13	16	6.3x13	18
2.2	6.3x13	23	6.3x13	27
3.3	6.3x13	29	6.3x13	35
4.7	6.3x13	34	6.3x13	42
10	6.3x13	54	8x16	69
22	8x13	89	10x21	120
33	10x17	109	10x21	153
47	10x17	152	13x22	203
100	10x21	232	16x28	317
220	13x27	381	16x36	501
330	16x28	500	--	--
470	16x33	668	--	--

RIPPLE CURRENT. mA/rms at 105°C, 120Hz

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### HOW TO ORDER

<b>GKT</b>	<b>AC</b>	<b>1H</b>	<b>010</b>	<b>M</b>	<b>00630130</b>	<b>000</b>	<b>B</b>	<b>R</b>
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	K	M
Tolerance	±10%	±20%

#### 4. Dimension

Code	00630130	00800130	01300220	01600280
Dimension (mm)	6.3x13	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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