

# Kingtronics®

# GKT-AV

## Aluminum Electrolytic Capacitor– Axial

### FEATURES

- ◆ Low Voltage, 2 Rubber Type
- ◆ 85°C 2000 hours assured.
- ◆ For general purpose application



### SPECIFICATIONS

<b>OPERATING TEMPERATURE RANGE (°C)</b>	-40°C ~ 85°C										
<b>CAPACITANCE TOLERANCE (20°C, 120Hz)</b>	±20%										
<b>VOLTAGE RANGE</b>	6.3 ~ 160 WV										
<b>SURGE VOLTAGE (V) (20°C)</b>	WV	6.3	10	16	25	35	50	63	100	160	
	SV	8	13	20	32	44	63	79	125	200	
<b>LEAKAGE CURRENT (µA) (20°C)</b>	$I \leq 0.01CV$ or $3 (\mu A)$ Whichever is greater (after 3 minutes applying the rated DC working voltage at 20°C) where: C = rated capacitance in µF. V = rated DC working voltage in V.										
<b>DISSIPATION FACTOR (Tan δ) (at 20°C, 120Hz)</b>	WV	6.3	10	16	25	35	50	63	100	160	
	DF	24	20	16	14	12	10	10	10	20	
For capacitors whose capacitance exceeds 1,000µF, the specification of tan δ is increased by 0.02 for every addition of 1,000µF.											
<b>LOW TEMPERATURE CHARACTERISTICS</b>	Impedance ratio at 120Hz.										
	Comparison Z \ WV	6.3	10	16	25	35	50	63	100	160	
	-25°C / +20°C	4	3	2	2	2	2	3	2	3	
	-40°C / +20°C	8	6	4	4	4	2	3	3	--	
<b>LOAD LIFE</b>	After 2000 hours application of rated voltage at 85°C, capacitors meet the characteristics requirements listed at right					Capacitance Change		Less than ±25% of initial value			
						Dissipation Factor		Less than 200% of specified value			
						Leakage Current		Initial specified value of less			
<b>SHELF LIFE</b>	After leaving capacitors under no load at 85°C for 500 hours and applying voltage they meet the specified value for load life characteristics listed above.										

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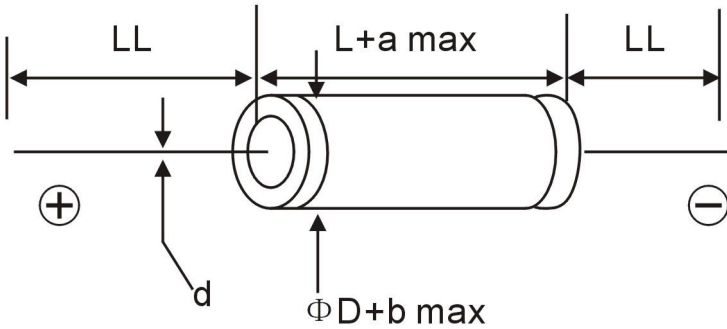
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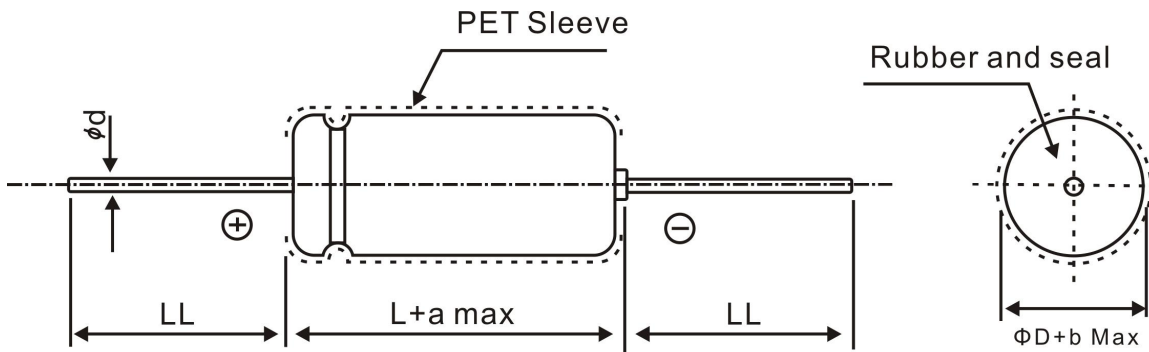
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### DIMENSIONS (mm)



### LEAD DIAMETER

$\text{ØD}$	5	6.3	8	10	13	16	18	22	25
$\text{Ød}$	0.5	0.6				0.8			
a	1.0				2.0				
b	0.5				1.0				



**DIMENSIONS: Diameter (DØ) x Length (L) mm**

**RIPPLE CURRENT. mA at 85°C, 120Hz**

V.DC	25V		35V		63V		100V		160V	
$\mu\text{F}$	$\text{ØDxL}$	mA	$\text{ØDxL}$	mA	$\text{ØDxL}$	mA	$\text{ØDxL}$	mA	$\text{ØDxL}$	mA
3.3	--	--	--	--	--	--	--	--	8x16	33
4.7	--	--	--	--	--	--	--	--	8x16	39
10	--	--	--	--	--	--	--	--	10x16	60
22	--	--	--	--	--	--	8x16	120	--	--
33	--	--	--	--	8x16	130	10x20	150	--	--
47	--	--	--	--	8x16	160	10x20	190	--	--
100	--	--	8x16	210	8x20	260	13x26	340	--	--
220	8x16	280	10x16	240	13x26	480	16x30	560	--	--
330	10x16	380	10x20	460	13x26	650	16x30	750	--	--
470	10x16	510	10x25	610	16x30	840	19x40	970	--	--
1000	10x25	900	13x26	1060	16x35	1330	22x40	1540	--	--
2200	16x30	1480	16x30	1580	22x42	2160	--	--	--	--
3300	16x32	1710	18x36	2050	--	--	--	--	--	--
4700	18x36	2170	--	--	--	--	--	--	--	--
6800	22x42	2580	--	--	--	--	--	--	--	--

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### HOW TO ORDER

<b>GKT</b>	<b>AV</b>	<b>0J</b>	<b>0R1</b>	<b>M</b>	<b>00500110</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	0J	1A	1C	1D	1E	1V	1G	1H	1J	1K
Voltage	6.3V	10V	16V	20V	25V	35V	40V	50V	63V	80V

Code	2A	2B	2C	2K	2D	2E	2F	2U	2V	2G	2X	2W	2H	2Y
Voltage	100V	120V	160V	180V	200V	250V	315V	330V	350V	400V	420V	450V	500V	550V

#### 2. Capacitance

Code	0R1	R22	R33	R47	010	2R2	3R3	4R7	100	220	330	470	101
Capacitance (µF)	0.1	0.22	0.33	0.47	1	2.2	3.3	4.7	10	22	33	47	100

Code	221	271	331	391	471	561	681	102	222	332	472	103	223
Capacitance (µF)	220	270	330	390	470	560	680	1000	2200	3300	4700	10000	22000

#### 3. Capacitance Tolerance

Code	K	L	M	P	Q	R	T	U	V	H	F
Tolerance	±10%	±15%	±20%	+100-0%	+30-10%	+20-0%	+50-10%	+75-10%	+20-10%	+20-5%	+30-0

#### 4. Dimension

Code	00500110	00630120	01300200	01600300	03500450
Dimension (mm)	5x11	6.3x12	13x20	16x30	35x45

#### 5. Lead Length

Code	000
Lead Length	Standard

#### 6. Packing

Code	A	B
Packing	Ammo	Bulk

#### 7. Pb

Code	L	R
Pb	Leaded	RoHS

Note: Specifications are subject to change without notice.

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