

Kingtronics®

GKT-AL

Aluminum Electrolytic Capacitor– Axial

FEATURES

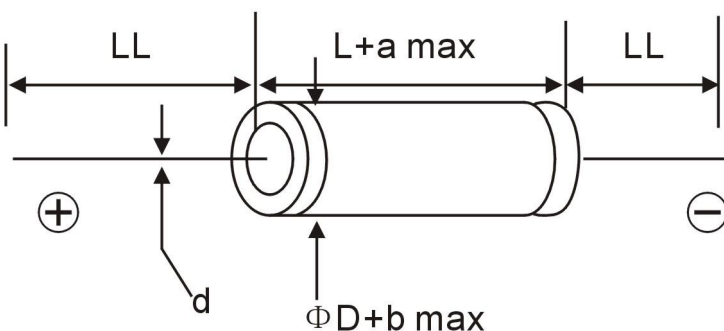
- ◆ Low Leakage Current, 2 Rubber Type
- ◆ 85°C 2000 hours assured.
- ◆ For general purpose application



SPECIFICATIONS

OPERATING TEMPERATURE RANGE (°C)	-40°C~ 85°C										
CAPACITANCE TOLERANCE (20°C, 120Hz)	±20%										
VOLTAGE RANGE	6.3 ~ 160 WV										
SURGE VOLTAGE (V) (20°C)	WV	6.3	10	16	25	35	50	63	100	160	
	SV	8	13	20	32	44	63	79	125	200	
LEAKAGE CURRENT (µA) (20°C)	$I \leq 0.005CV$ or $1 (\mu A)$ 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.										
DISSIPATION FACTOR (Tan δ) (at 20°C, 120Hz)	WV	6.3	10	16	25	35	50	63	100	160	
	DF	24	20	16	14	12	10	10	10	20	
LOW TEMPERATURE CHARACTERISTICS	Impedance ratio at 120Hz.										
	Comparison Z _L 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	--	
LOAD LIFE	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		
SHELF LIFE	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.										

DIMENSIONS (mm)



LEAD DIAMETER

ØD	5	6.3	8	10	13	16	18	22	25
Ød	0.5	0.6				0.8			
a	1.0				2.0				
b	0.5				1.0				

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DIMENSIONS: Diameter (DØ) x Length (L) m/m

RIPPLE CURRENT. mA at 85°C, 120Hz

V.DC	6.3V		10V		16V		25V		35V		50V		63V		100V		160V		
	µF	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA
3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8x16	33
4.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8x16	39
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8x20	60
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8x16	120	10x26	120	
33	--	--	--	--	--	--	--	--	--	--	--	--	--	8x16	150	13x26	170		
47	--	--	--	--	--	--	--	--	--	--	--	8x16	160	8x20	190	16x32	230		
100	--	--	--	--	--	--	--	--	8x16	210	8x16	220	8x20	260	10x26	340	16x41.5	430	
220	--	--	--	--	8x16	260	8x16	280	8x20	340	10x21	410	10x26	480	13x26	560	22x41	680	
330	8x16	250	8x16	300	8x16	320	8x20	380	10x21	460	10x26	560	13x26	650	13x31	750	25x53	940	
470	8x16	330	8x16	350	8x20	430	10x21	510	10x26	610	13x36	730	13x31	840	16x32	970	25x53	1200	
1000	10x21	600	10x21	640	10x26	770	13x26	900	13x31	1060	16x32	1260	16x32	1330	22x41	1540	--	--	
2200	13x26	1020	13x26	1090	13x31	1180	16x32	1480	16x32	1580	18x40	1920	22x41	2160	25x53	2430	--	--	
3300	13x26	1200	13x31	1390	16x32	1620	16x40	1710	18x40	2050	22x41	2340	22x52	2470	--	--	--	--	
4700	16x32	1500	16x32	1730	16x40	1840	18x40	2170	22x41	2470	22x52	2650	25x53	2710	--	--	--	--	
6800	16x32	1840	16x40	1930	18x40	2310	22x41	2580	22x52	2720	25x53	2910	--	--	--	--	--	--	
10000	16x32	2260	18x40	2350	22x41	2620	22x52	2940	25x53	3600	--	--	--	--	--	--	--	--	
15000	22x41	2450	22x41	2730	22x52	2860	25x53	3880	--	--	--	--	--	--	--	--	--	--	
22000	22x52	2550	22x52	2940	25x53	3630	--	--	--	--	--	--	--	--	--	--	--	--	

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HOW TO ORDER

GKT	AL	0J	0R1	M	00500110	000	B	R
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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