

# Kingtronics®

# GKT-UA

## Aluminum Electrolytic Capacitor— Lug

### FEATURES

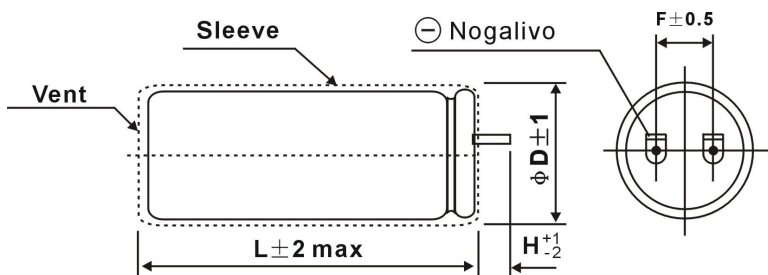
- ◆ Standard product.
- ◆ For industrial equipment control etc.



### SPECIFICATIONS

OPERATING TEMPERATURE RANGE (°C)	-40°C ~ +85°C (16V ~ 100V)		-25°C ~ +85°C (160V ~ 450V)					
RATED VOLTAGE RANGE (V)	16V ~ 450V							
CAPACITANCE RANGE (µF)	33µF ~ 68000µF							
CAPACITANCE TOLERANCE (25°C, 120Hz)	-10%~+50%							
LEAKAGE CURRENT (µA)	3CV(µA) or Max. (25°C, after 5 minutes) C: Nominal Capacitance (µF) V: Rated Voltage (V)							
DISSIPATION FACTOR (25°C, 120Hz)	Rated Voltage (V)	16 ~ 25		35 ~ 63		80 ~ 350	400 ~ 450	
	Cap (µF)	33000 ~ 10000	15000~ 33000	47000 ~ 68000	1000 ~ 10000	15000 ~ 33000	47 ~ 10000	33 ~ 470
	Tan δ(Max)	0.35	0.50	0.75	0.25	0.35	0.20	0.25
TEMPERATURE STABILITY (120Hz)	Rated Voltage (V)		16 ~ 100		160 ~ 250		315 ~ 450	
	Impedance Ratio	Z-25°C / Z+20°C		3	3		8	
LOAD LIFE (+85°C)	Time	1000hours						
	Leakage Current	Not more than the specified value.						
	Capacitance Change	Within±20% of the initial value						
	Dissipation Factor	Not more than 200% of the specified value.						
SHELF LIFE (+85°C)	Time	1000hours						
	Leakage Current	Not more than the specified value.						
	Capacitance Change	Within±20% of the initial value						
	Dissipation Factor	Not more than 200% of the specified value.						
After test: U <sub>R</sub> to be applied for 60 minutes, 24 to 48 hours before measurement.								

### DIMENSIONS (mm)



φD	22	25	30	35	40
F	8.5	10	14	14	14
H	10	12	12	12	12

### MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient						
Rated Voltage(V)	Frequency(Hz)					
	50	60	120	1K	10K	≥50K
16 ~ 100	0.88	0.90	1.00	1.15	1.15	1.15
160 ~ 250	0.77	0.80	1.00	1.50	1.60	1.63
315 ~ 450	0.88	0.90	1.00	1.15	1.15	1.15

Temperature Coefficient				
Temperature(°C)	+20	+45	+70	+85
Factor	1.50	1.48	1.30	1.00

**Kingtronics® International Company**

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**STANDARD RATINGS**

WV (V) / Cap (uF)	16	25	35	50	60	80	100
470	--	--	--	--	--	--	22x30
680	--	--	--	--	--	22x30	22x40
1000	--	--	--	--	22x30	22x40	25x40
1500	--	--	--	22x30	22x40	22x40	25x50
2200	--	--	22x30	22x40	25x40	25x50	30x50
3300	--	22x30	22x40	25x40	25x50	30x50	35x50
4700	22x30	22x40	25x40	25x50	30x50	35x50	35x63
6800	22x30	25x40	25x50	30x50	30x50	35x63	35x100
10000	25x40	25x50	30x50	35x63	35x80	35x100	--
15000	30x50	30x63	35x63	35x80	35x100	--	--
22000	30x63	35x63	35x80	35x100	--	--	--
33000	35x63	35x80	40x100	--	--	--	--
47000	35x80	40x100	--	--	--	--	--
68000	40x100	--	--	--	--	--	--

WV (V) / Cap (uF)	160	200	250	315	350	400	450
33	--	--	--	--	--	22x30	22x30
47	--	--	--	22x30	22x30	22x40	22x40
68	--	--	22x30	22x40	22x40	25x40	25x40
100	--	22x30	22x40	25x40	25x40	25x50	30x50
150	22x30	22x40	25x40	25x50	25x50	30x50	35x50
220	22x40	25x40	25x50	30x50	30x50	35x50	35x63
330	25x50	25x50	30x50	35x50	35x50	35x63	35x80
470	30x50	30x50	35x50	35x63	35x80	35x100	40x100
680	35x50	35x50	35x63	35x80	35x100	40x100	--
1000	35x63	35x63	35x80	40x100	40x100	--	--
1500	35x80	35x100	40x100	--	--	--	--
2200	40x100	40x100	--	--	--	--	--

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**HOW TO ORDER**

<b>GKT</b>	<b>UA</b>	<b>0J</b>	<b>0R1</b>	<b>M</b>	<b>00500110</b>	<b>020</b>	<b>000</b>	<b>B</b>	<b>R</b>
Series	Sub Series	Rated Voltage	Capacitance	Capacitance Tolerance	Dimension	Pitch/Pins	Lead Length	Packing	Pb
		1.	2.	3.	4.	5.	6.	7.	8.

**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	01250200	01600300	03500450
Dimension (mm)	5x11	6.3x12	12.5x20	16x30	35x45

**5. Pitch/Pins**

Code	020	025	035	050	075	100	127	4pins
Pitch (mm)/Pins	2.0	2.5	3.5	5.0	7.5	10.0	12.7	4PS

**6. Lead Length**

Code	000	040	045	050
Lead Length	Standard	4.0	4.5	5.0

**7. Packing**

Code	A	B
Packing	Ammo	Bulk

**8. Pb**

Code	L	R
Pb	Leaded	RoHS

Note: Specifications are subject to change without notice.

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