

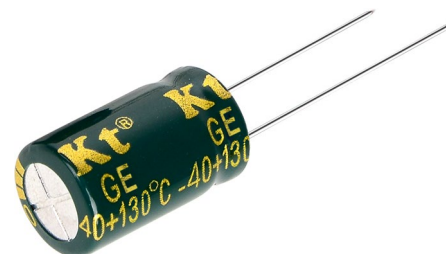
# Kingtronics®

# GKT-GE

## Aluminum Electrolytic Capacitor – Radial

### FEATURES

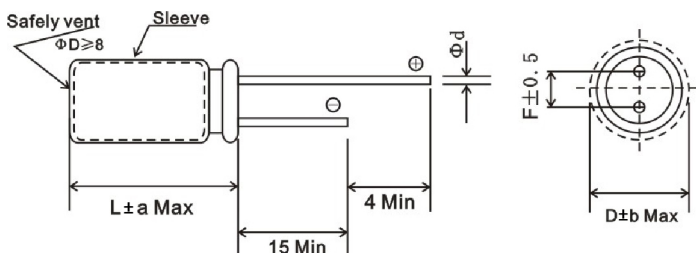
- ◆ High temperature, Long Life, High Stability.
- ◆ Ensure life: 130°C 3000 hours, 105°C 12000 hours.
- ◆ Extremely designed for LED lighting, Electronic energy saving lamps, Electronic ballast.



### SPECIFICATIONS

<b>OPERATING TEMPERATURE RANGE (°C)</b>	-40°C ~ +130°C (160V~400V) ; -25°C~+130°C (450V)						
<b>Capacitance Range (µF)</b>	1µF ~ 220µF						
<b>Rated Voltage Range (V)</b>	160V ~ 450V						
<b>CAPACITANCE TOLERANCE (+20°C, 120Hz)</b>	±20%						
<b>LEAKAGE CURRENT (µA)</b>	160V ~ 400V		450		I: Leakage Current (µA)		C: Nominal Capacitance (µF)
	I ≤ 0.02CV + 10µA		I ≤ 0.03CV + 10µA		V: Rated Voltage (V) (20°C, 2 minutes)		
<b>DISSIPATION FACTOR (+20°C, 120Hz)</b>	Wv (V)	160	200	250	350	400	450
	Tan δ	0.15	0.15	0.15	0.20	0.20	0.20
<b>Temperature Characteristics (Impedance ratio at 120Hz)</b>	U <sub>R</sub> (V)	160	200	250	350	400	450
	Z-25°C/+20°C	3	3	3	5	5	6
	Z-40°C/+20°C	6	6	6	6	6	--
<b>LOAD LIFE</b>	After application of the rated DC voltage at 130°C 3,000 hours or application of DC voltage with rated ripple current (the voltage peak is not more than rated voltage) at 105°C 12,000 hours, measuring the parameters when the capacitors are restored to 20°C , the capacitors shall meet the requirements as below: Capacitance Change: ±20% of the initial measured value Leakage current: ≤the initial specified value Dissipation factory: ≤200% of the initial specified value						
<b>SHELF LIFE</b>	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage application. Capacitance Change: ±20% of the initial measured value Leakage current: ≤200% of the initial specified value Dissipation factory: ≤200% of the initial specified value						

### DIMENSIONS (mm)



<b>ΦD</b>	8	10	12.5	16	18
<b>F</b>	3.5	5.0	5.0	7.5	7.5
<b>Φd ±0.05</b>	0.5	0.6	0.6	0.8	0.8

<b>a Max.</b>	D<18	D=18	
		L<35.5	L≥35.5
		+1.5 -1.0	+2.0 -1.0

<b>b Max.</b>	(D<18)	0.5
	(D≥18)	1.0

### MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient					
Frequency (Hz)	120	1K	10K	100K	
Coefficient	160~450	0.50	0.80	0.90	1.00

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### STANDARD RATINGS

Rated Voltage (Vdc)	Capacitance (µF)	Size ØDxL (mm)	tan δ	Rated ripple current (mArms) 105°C/100KHz
160V	3.3	8x12	0.15	88
	4.7	8x12	0.15	96
	5.6	8x16	0.15	102
	6.8	8x16	0.15	110
	8.2	8x16	0.15	180
	10	8x16	0.15	250
	15	8x20	0.15	340
	22	10x20	0.15	500
	33	10x20	0.15	525
		12.5x20	0.15	550
	47	12.5x20	0.15	660
		12.5x25	0.15	695
	68	12.5x25	0.15	760
		16x20	0.15	760
	100	16x25	0.15	1120
18x20		0.15	1120	
150	16x30	0.15	1360	
	18x25	0.15	1360	
	18x25	0.15	1400	
200V	2.8	8x12	0.15	80
	3.3	8x12	0.15	92
	4.7	8x12	0.15	100
	5.6	8x16	0.15	108
	6.8	8x16	0.15	118
	8.2	10x16	0.15	180
	10	10x16	0.15	250
	15	10x20	0.15	358
	22	10x20	0.15	500
	33	12.5x20	0.15	525
		12.5x20	0.15	600
	47	12.5x20	0.15	660
		12.5x25	0.15	695
	68	16x20	0.15	760
		16x25	0.15	800
100	16x30	0.15	1180	
	18x20	0.15	1120	
150	18x30	0.15	1430	
220	18x35	0.15	1700	
250V	2.2	8x12	0.15	80
	2.8	8x12	0.15	90
	3.3	8x12	0.15	100
	4.7	8x16	0.15	120
	5.6	8x16	0.15	140
	6.8	8x16	0.15	160
	8.2	10x16	0.15	180
	10	10x16	0.15	265
		10x20	0.15	280
	15	10x20	0.15	380
	22	12.5x20	0.15	525
	33	12.5x20	0.15	610
		12.5x25	0.15	630
	47	12.5x25	0.15	720
		16x25	0.15	760
68	16x30	0.15	850	
	18x20	0.15	850	
100	16x30	0.15	1200	
	18x30	0.15	1260	
150	18x35	0.15	1500	

Rated Voltage (Vdc)	Capacitance (µF)	Size ØDxL (mm)	tan δ	Rated ripple current (mArms) 105°C/100KHz
350V	1	8x12	0.2	64
	1.5	8x12	0.2	70
	1.8	8x12	0.2	78
	2.2	8x16	0.2	88
	2.8	8x16	0.2	96
	3.3	8x16	0.2	110
	4.7	8x20	0.2	130
	5.6	8x20	0.2	180
	6.8	10x16	0.2	220
		10x20	0.2	232
	8.2	12.5x20	0.2	238
		12.5x25	0.2	245
	10	10x20	0.2	280
		12.5x20	0.2	294
	15	12.5x20	0.2	400
12.5x25		0.2	420	
22	12.5x20	0.2	525	
	12.5x25	0.2	540	
33	16x20	0.2	630	
	16x25	0.2	650	
47	16x25	0.2	760	
	18x20	0.2	760	
68	16x30	0.2	850	
	18x25	0.2	850	
100	18x35	0.2	1300	
400V	1	8x16	0.2	72
	1.5	8x16	0.2	84
	1.8	8x16	0.2	85
	2.2	10x16	0.2	92
	2.8	10x16	0.2	100
	3.3	10x16	0.2	110
	4.7	10x20	0.2	130
	5.6	12.5x20	0.2	180
	6.8	10x16	0.2	220
		12.5x20	0.2	232
	8.2	12.5x20	0.2	250
	10	10x20	0.2	280
		12.5x20	0.2	294
	15	12.5x25	0.2	420
	22	16x25	0.2	560
33	16x30	0.2	674	
47	18x30	0.2	884	
68	18x40	0.2	1100	
100	18x50	0.2	1470	
450V	1.5	8x16	0.2	88
	1.8	8x16	0.2	90
	2.2	8x16	0.2	96
	2.8	10x16	0.2	100
	3.3	10x16	0.2	110
	4.7	10x16	0.2	130
	5.6	10x20	0.2	180
	6.8	12.5x20	0.2	232
	8.2	12.5x20	0.2	262
	10	12.5x20	0.2	320
	15	12.5x25	0.2	420
	22	16x25	0.2	560
		18x20	0.2	560
	33	16x30	0.2	700
		18x25	0.2	700
47	18x30	0.2	880	
68	18x40	0.2	1000	
100	18x50	0.2	1470	

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**HOW TO ORDER**

<b>GKT</b>	<b>GE</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	01300200	01600300	03500450
Dimension (mm)	5x11	6.3x12	13x20	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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