

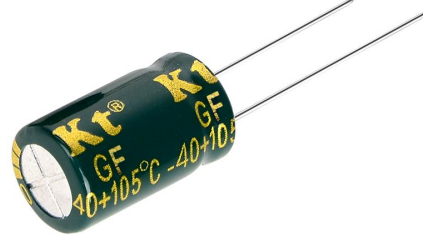
# Kingtronics®

# GKT-GF

## Aluminum Electrolytic Capacitor— Radial

### FEATURES

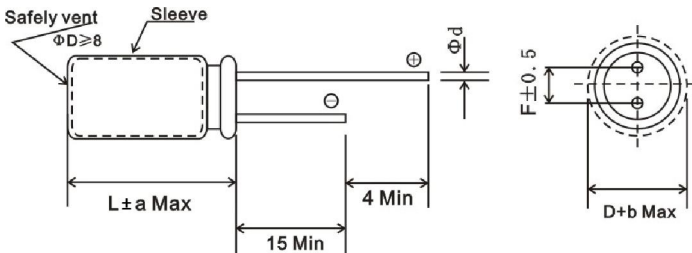
- ◆ Long life: 105°C 5000 hours.
- ◆ Especially designed for electronic ballast.



### SPECIFICATIONS

OPERATING TEMPERATURE RANGE (°C)	-40°C ~ +105°C				
Capacitance Range (μF)	10μF ~150μF				
Rated Voltage Range (V)	200V ~ 400V				
CAPACITANCE TOLERANCE (+20°C, 120Hz)	±20%				
LEAKAGE CURRENT (μA)	I ≤ 0.02CV+25μA				
	I: Leakage current (μA) (20°C, 2 minutes)	C: Nominal capacitance (μF)	V: Rated Voltage (V)		
DISSIPATION FACTOR (+20°C, 120Hz)	U <sub>R</sub> (V)	200	250	350	400
	Tan δ	0.15	0.15	0.20	0.20
Temperature Characteristics (Impedance ratio at 120Hz)	U <sub>R</sub> (V)	200	250	350	400
	Z-25°C/+20°C	3	3	5	5
	Z-40°C/+20°C	6	6	6	6
LOAD LIFE	After application of DC voltage with rated ripple current (the voltage peak is not more than rated voltage) at 105°C 5,000 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				
SHELF LIFE	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 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)



ΦD	10	12	13	16	18	22
F	5.0	5.0	5.0	7.5	7.5	10.5
Φd ±0.05	0.6	0.6	0.6	0.8	0.8	0.8

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

b Max.	(D<18)	0.5
	(D≥18)	1.0

### MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient					
Frequency (Hz)		120	1K	10K	100K
Coefficient	160~250	0.55	0.85	0.90	1.00
	350~400	0.50	0.80	0.90	1.00

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**STANDARD RATINGS**

Rated Voltage (Vdc)	Capacitance (μF)	Size ΦDxL (mm)	tan δ	Rated ripple current (mArms) 105°C/100KHz
200V	15	10x16	0.15	235
		12x15	0.15	235
	22	10x16	0.15	240
		12x25	0.15	240
	33	13x18	0.15	300
	47	16x18	0.15	310
	68	18x20	0.15	380
100	18x20	0.15	640	
250V	10	10x16	0.15	250
	15	13x15	0.15	250
	22	12.5x18	0.15	285
	33	16x18	0.15	320
	47	16x20	0.15	330
	68	18x25	0.15	400
	100	18x25	0.15	680
	150	22x26	0.15	740
350V	10	10x16	0.20	250
	15	13x18	0.20	260
	22	16x18	0.20	275
	33	16x20	0.20	300
	47	18x20	0.20	350
	68	18x25	0.20	420
	100	18x30	0.20	700
400V	10	12x18	0.20	260
	15	16x18	0.20	270
	22	16x20	0.20	285
	33	18x20	0.20	310
	47	18x25	0.20	375
	68	18x25	0.20	430
	100	22x31	0.20	720

**Kingtronics**® International CompanyWebsite: [www.kingtronics.com](http://www.kingtronics.com)Email: [info@kingtronics.com](mailto:info@kingtronics.com)

Tel: (852) 8106 7033

Fax: (852) 8106 7099

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**HOW TO ORDER**

<b>GKT</b>	<b>GF</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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Fax: (852) 8106 7099