

# Kingtronics®

# GKT-GS

## Aluminum Electrolytic Capacitor – Radial

### FEATURES

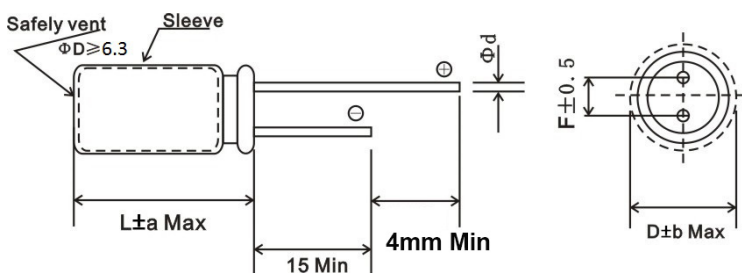
- ◆ 85°C 2000 hours Guaranteed
- ◆ Miniature Series



### SPECIFICATIONS

OPERATING TEMPERATURE RANGE (°C)	-40°C ~ 85°C																
CAPACITANCE TOLERANCE (25°C, 120Hz)	±20%																
LEAKAGE CURRENT (µA)	Rated Voltage (V)	6.3 ~ 100								160 ~ 450							
		0.03cv or 4 whichever is greater (at 25°C, after 1 minutes) 0.01cv or 3 whichever is greater (at 25°C, after 2 minutes)								CV≤1000:0.1 CV+40 (at 25°C, after 1 minutes) CV>1000:0.04 CV+100 (at 25°C, after 1 minutes)							
DISSIPATION FACTOR (25°C, 120Hz)	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250	315	350	400	450	
	Tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.20	0.20	0.24	0.24	0.24	0.24	
0.02 is added to every 1000µF increase over																	
TEMPERATURE STABILITY (120Hz)	Rated Voltage (V)		6.3	10	16	25	35	50	63	100	160	200	250	315	350	400	450
	Impedance	Z-25°C/Z+20°C	5	4	3	2						4					
Z-40°C/Z+20°C		12	10	8	5	4	3			15			10				
LOAD LIFE (+85°C)	Time	2000hours															
	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)	1000 hours. No voltage applied. After test: UR to be applied for 30 minutes, 24 to 48 hours before measurement.																

### DIMENSIONS (mm)



ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0		7.5	
Φd±0.05	0.5			0.6		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							
Rated Voltage (V)	Freq(Hz)	CV(µF.WV)	Freq(Hz)				
			50, (60.)	120	1K	10K	100K
6.3~16	---	---	0.8	1	1.1	1.2	1.2
25~35	≤1000	---	0.8	1	1.5	1.7	1.7
	>1000	---	0.8	1	1.2	1.3	1.3
50~100	≤1000	---	0.8	1	1.6	1.9	1.9
	>1000	---	0.8	1	1.2	1.3	1.3
160~450	---	---	0.8	1	1.3	1.5	1.6

Temperature Coefficient		
Temperature(°C)	+70	+85
Factor	1.35	1

**Kingtronics® International Company**

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### STANDARD RATINGS

Ripple Current: 85°C @ 120Hz

WV (V) Cap (µF)	6.3		10		16		25		35		50	
	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms
0.1~0.47	--	--	--	--	--	--	--	--	--	--	5x11	5
1	--	--	--	--	--	--	--	--	--	--	5x11	10
2.2	--	--	--	--	--	--	--	--	--	--	5x11	23
3.3	--	--	--	--	--	--	--	--	--	--	5x11	35
4.7	--	--	--	--	--	--	--	--	--	--	5x11	40
10	--	--	5x11	50	5x11	40	5x11	50	5x11	55	5x11	50
22	--	--	5x11	55	5x11	75	5x11	80	5x11	85	5x11	80
33	--	--	5x11	80	5x11	80	5x11	95	5x11	95	6.3x11	120
47	--	--	5x11	95	5x11	110	5x11	115	6.3x11	130	6.3x11	155
100	--	--	5x11	145	5x11	130	6.3x11	190	6.3x11	180	8x12	260
220	5x11	150	5x11 6.3x11	180 230	6.3x11	200	8x12	330	8x12	300	10x16 10x12	380 410
330	6.3x12	270	6.3x11	250	8x12	280	8x12	400	10x16	470	10x17	500
470	6.3x12	300	6.3x12	310	8x12	316	8x14 8x16	430	10x17	560	10x20 13x20	600 740
680	--	--	--	--	8x16	560	10x17	540	10x20	620	13x20	800
820	--	--	--	--	--	--	10x17	700	10x20	760	--	--
1000	8x12	520	8x14 8x12	560	10x16	710	10x17 10x20	830	13x20	880	13x25	1100
1500	--	--	--	--	--	--	--	--	13x25	1050	--	--
2200	10x17	900	10x17	970	10x20 13x20	900 1050	13x25	1100	16x25	1400	16x35	1550
3300	13x20	1050	13x20	1250	13x25	1400	16x25	1500	16x30	1850	18x35	2000
3900	--	--	13x20	1350	--	--	--	--	--	--	--	--
4700	13x20	1300	13x25	1500	16x25	1700	16x25	1850	18x35	2400	22x40 22x35	2900 2700
6800	13x25	1600	16x25	1850	16x35	2150	16x35	2150	22x40	2800	--	--
8200	--	--	16x30	2000	--	--	--	--	--	--	--	--
10000	16x25	2000	16x25	2300	18x35	2700	18x40	2900	22x45	3700	--	--
12000	--	--	16x35	2550	--	--	--	--	--	--	--	--
15000	16x35	2550	18x35	2950	--	--	--	--	--	--	--	--

WV (V) Cap (µF)	63		100	
	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms
0.1~0.47	5x11	5	5x11	8
1	5x11	10	5x11	21
2.2	5x11	25	5x11	30
3.3	5x11	35	5x11	40
4.7	5x11	40	5x11	45
10	5x11	65	6.3x11	60
22	6.3x11	100	--	--
33	--	--	8x12	140
47	8x12	140	10x16	230
100	8x14 10x12	230 300	10x20	340
220	10x17	450	13x25	620

WV (V) Cap (µF)	63		100	
	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms
330	13x20	710	13x25	700
470	13x20	860	16x25	900
680	13x25	970	16x35	1000
820	--	--	18x35	1150
1000	16x25	1200	18x40	1380
1500	--	--	--	--
2200	18x35	2100	--	--
3300	22x40	2700	--	--
3900	--	--	--	--
4700	22x40	3100	--	--
6800	25x45	3800	--	--

WV (V) Cap (µF)	160		200		250		350		400		450	
	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms	Size(mm) DxL	Ripple mArms
1	5x11	17	--	--	6.3x11	17	6.3x11	18	6.3x11	18	8x11	22
2.2	6.3x11	26	--	--	6.3x11	26	6.3x11	25	8x12	34	8x12	40
3.3	6.3x11	32	--	--	6.3x11	29	8x11	35	8x12	41	--	--
4.7	6.3x11	39	--	--	8x12	39	8x12	45	8x12	50	10x17	80
6.8	--	--	--	--	8x14	60	10x12	70	10x12	80	10x17	80
10	8x12	60	10x16	80	10x12	90	10x16	90	10x16	94	10x20 13x20	100 120
22	10x13	110	10x16	140	10x20 13x20	150 190	13x20	180	13x20	173	13x21	170
33	10x16	190	10x16	180	13x25 16x20	210 140	13x20	220	13x25	230	16x25	278
47	10x20	235	13x20	260	13x25 16x20	250 170	16x25	280	16x25	315	16x25	300
68	13x20	270	13x25	330	16x25	330	16x30	400	18x25	382	18x30	378
82	--	--	--	--	--	--	16x35	440	--	--	--	--
100	13x25	330	16x25	395	16x30	460	18x30	500	18x35	510	18x40	430
120	13x25	390	16x25	560	--	--	--	--	18x35	650	18x40	500
150	16x25	450	16x30	650	--	--	--	--	--	--	--	--
180	16x30	530	--	--	--	--	--	--	--	--	--	--
220	16x30	636	16x35	727	22x35	1000	--	--	--	--	--	--
330	18x30	900	18x30	880	--	--	--	--	--	--	--	--

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### HOW TO ORDER

GKT	GS	0J	0R1	M	00500110	020	000	B	R
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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