

Kingtronics®

GKT-GH

Aluminum Electrolytic Capacitor – Radial

FEATURES

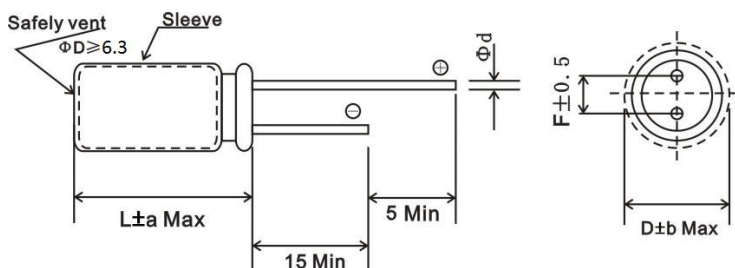
- ◆ Load life of 2000 hours at 105°C
- ◆ Low Impedance
- ◆ High Frequency
- ◆ Switch power supply



SPECIFICATIONS

OPERATING TEMPERATURE RANGE (°C)	-40°C ~ +105°C		-25°C ~ +105°C						
Rated Voltage Range (V)	6.3-50		63-100						
Capacitance Range (µF)	0.47 ~ 15000								
CAPACITANCE TOLERANCE (25°C, 120Hz)	±20%								
LEAKAGE CURRENT (µA)	I=0.02CV or 3 whichever is greater (at 25°C, after 2 minutes), C: Nominal Capacitance (µF) V: Rated Voltage (V)								
DISSIPATION FACTOR (25°C, 120Hz)	Rated Voltage	6.3	10	16	25	35	50	63	100
	Tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
Add 0.02 per 1000µF or more.									
LOAD LIFE (+105°C)	After life test at condition stated in the table below, the capacitors shall meet the following requirement.								
	Case Dia	Test time (hrs)							
	ΦD≤8	1000							
	ΦD>8	2000							
	Ripple current applied	Not more than the specified value.							
	Capacitance Change	Within±20% of the initial value							
SHELF LIFE (+105°C)	1000 hours. No voltage applied. After test:UR to be applied for 30 minutes, 24 to 48 hours before measurement								
	Characteristics of Low Temperature								
Impedance at -10°C, 100KHz<200% of initial specified value at +20°C, 100KHz (Impedance ratio at 100KHz)									

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	
		L<35.5	L≥35.5
	+1.5 -1.0	+1.5 -1.0	+2.0 -1.0

b Max	D<18	0.5
	D≥18	1.0

MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient	Freq(Hz)			
	120	1K	10K	100K
Cap(µF)				
0.47-4.7	0.40	0.68	0.78	1.0
5.6-47	0.50	0.76	0.87	1.0
56-270	0.70	0.85	0.90	1.0
330-1000	0.80	0.93	0.98	1.0
1200-15000	0.90	0.95	1.0	1.0

Temperature Coefficient			
Temperature(°C)	+70	+85	+105
Factor	1.96	1.68	1.0

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STANDARD RATINGS

V μF	6.3V	10V	16V	25V	35V	50V	63V	100V
1	--	--	--	--	--	5x11	--	
2.2	--	--	--	--	--	5x11	--	
3.3	--	--	--	--	--	5x11	--	
4.7	--	--	--	--	5x11	5x11	--	
6.8	--	--	--	--	5x11	5x11	--	
10	--	--	--	--	5x11	5x12	5x12	6.3x11
15	--	--	--	--	5x11	5x12	--	
18	--	--	--	--	5x11	5x12	--	
22	--	--	--	5x11	5x11	6.3x11	6.3x11	8x12
27	--	--	--	--	5x11	6.3x11	--	
33	--	--	--	--	6.3x11	6.3x11	6.3x11	10x13
39	--	--	--	--	6.3x11	6.3x11	--	
47	--	--	5x11	5x11	6.3x11	6.3x12	8x12	10x17
56	--	--	5x11	5x11	6.3x11	6.3x12	--	
68	--	--	5x12	5x12	6.3x11	8x12	10x13	10x21
82	--	--	--	6.3x11	6.3x11	8x12	--	
100	--	5x11	6.3x11	6.3x11	8x12	8x12	10x17	13x20
120	--	5x11	6.3x11	6.3x11	8x12	8x16	--	
150	5x11	5x11	6.3x11	8x12	8x12	8x19	--	
180	5x11	6.3x11	6.3x11	8x12	8x14	8x19	--	
220	6.3x11	6.3x11	6.3x11	8x12	10x15	10x17	10x21	16x26
270	6.3x11	6.3x11	8x12	8x14	10x15	10x21	--	
330	6.3x11	8x12	8x12	10x12	10x17	10x21	13x20	16x26
390	6.3x12	8x12	--	8x19	10x17	13x20	--	
470	6.3x12	8x12	8x12	10x15	10x17	13x20 13x21	13x20	16x31
560	8x12	8x12	8x16	8x19	10x25	13x21	--	
680	8x12	8x12	8x16	10x17	13x20	13x25	16x26	
820	8x14	8x16	8x19	10x25	13x20	13x25	--	
1000	8x16	8x16	10x17	10x21	13x25	13x25	16x26	
1200	8x16	10x17	10x21	13x20	16x20	13x30	16x30	
1500	8x16	10x21	13x20	13x20	16x20	16x26	--	
1800	10x15	10x25	13x20	13x25	16x26	16x32	--	
2200	10x15	13x20	13x20	13x25	16x26	16x35	18x40	
2700	10x21	13x21	16x26	13x25	16x35	18x40	--	
3300	13x20	13x20	13x30	16x26	16x35	18x40	--	
3900	13x25	--	16x26	16x26	18x40	--	--	
4700	13x25	13x25	16x26	16x26	--	--	--	
5600	16x26	16x30	16x35	--	--	--	--	
6800	16x26	16x30	18x25	--	--	--	--	
8200	16x32	16x35	--	--	--	--	--	
10000	16x35	16x40	--	--	--	--	--	

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HOW TO ORDER

<u>GKT</u>	<u>GH</u>	<u>0J</u>	<u>0R1</u>	<u>M</u>	<u>00500110</u>	<u>020</u>	<u>000</u>	<u>B</u>	<u>R</u>
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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