

Kingtronics®

GKT-AU

Polymer Aluminum Solid Electrolytic Capacitor

FEATURES

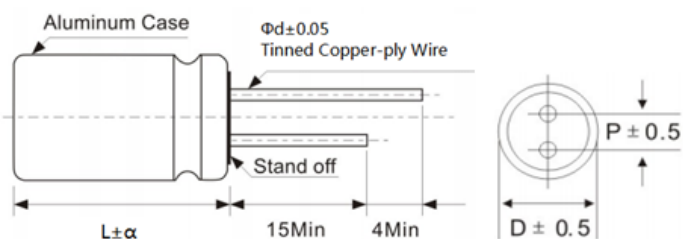
- ◆ Low ESR, high ripple current, high voltage, high temperature
- ◆ Endurance:2000 hours at 125°C



SPECIFICATIONS

Category Temperature Range (°C)	-55°C ~ +125°C		
Rated Voltage Range	35 ~ 160V		
Capacitance Tolerance (20°C, 120Hz)	±20%		
Leakage Current	I ≤ 0.1CV or 299µA whichever is greater Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20°C		
Dissipation Factor (20°C, 120Hz)	Rated Voltage(V)	35~160	
	Tanδ (Max)	0.12	
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)	≦ 1.25	(100KHz)
	Z(-55°C)/Z(+20°C)	≦ 1.25	
Endurance	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 2000 hours at 125°C.		
	Appearance	No significant damage	
	Capacitance change	≦ ±20% of the initial value	
	D.F.(tanδ)	≦ 150% of the specified value	
	ESR	≦ 150% of the specified value	
Damp Heat (Steady State)	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 1000 hours at 60°C, 90% ~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≦ ±20% of the initial value	
	D.F.(tanδ)	≦ 150% of the specified value	
	ESR	≦ 150% of the specified value	
Surge Voltage	Surge Voltage=Rated voltage × 1.15(V) The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 125°C for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds.		
	Appearance	No significant damage	
	Capacitance change	≦ ±20% of the initial value	
	D.F.(tanδ)	≦ 150% of the specified value	
	ESR	≦ 150% of the specified value	
	Leakage current	≦ The specified value	

DIMENSIONS (mm)



ΦD	5	5.5	6.3	8	10
P	2.0	2.5	2.5	3.5	5.0
Φd	0.5	0.5	0.6	0.6	0.6

α	(L < 16) 1.0
	(16 ≦ L < 22) 1.5
	(L ≧ 22) 2.0

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RATED RIPPLE CURRENT COEFFICIENT

Frequency(Hz)	120Hz \cong f < 1kHz	1kHz \cong f < 10kHz	10kHz \cong f < 100kHz	100kHz \cong f < 500kHz
Coefficient	0.05	0.30	0.70	1.00

STANDARD RATINGS

Rated Voltage	Rated Capacitance (μ F)	Case Size Φ DxL (mm)	ESR (m Ω) at 20°C, 100 KHz	Leakage Current (μ A)	Rated Ripple Current (mArms/125°C/100kHz)
35	68	6.3x8	70	299	790
	100	6.3x8	50	350	860
		6.3x12	60	350	1040
		8x9	40	350	1150
	220	8x12	35	770	1440
		10x12.5	30	770	1700
330	10x12.5	30	1155	1700	
50	10	5x8	120	299	400
	22	6.3x8	100	299	500
	47	6.3x12	60	299	750
		8x12	40	299	860
	100	8x12	40	500	860
		10x12.5	35	500	1210
220	10x12.5	35	1100	1210	
63	10	6.3x8	100	299	400
	22	6.3x8	100	299	400
	47	8x9	55	299	630
		8x12	40	299	750
	100	8x12	40	630	820
		10x12.5	38	630	1040
80	22	6.3x12	80	299	650
	33	8x9	70	299	650
	47	8x12	45	299	1040
	56	10x12.5	45	448	1040
100	10	8x9	90	299	550
	15	8x12	70	299	680
	22	8x12	70	299	750
	33	10x12.5	60	330	900
160	4.7	8x9	350	299	450
	10	8x12	250	299	550
	15	10x10	300	299	500
	18	10x12.5	200	299	750
	22	10x12.5	200	352	750

Note: Reflow soldering can only be used for SMD Conductive Polymer Aluminum Solid Electrolytic Capacitor.

Radial Conductive Polymer Aluminum Solid Electrolytic Capacitor are not suitable for reflow soldering, but only for wave soldering.

Note: Specification are subject to change without notice. For more detail and update, please visit our website.

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HOW TO ORDER

<u>GKT</u>	<u>AU</u>	<u>0J</u>	<u>0R1</u>	<u>M</u>	<u>00500095</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
Voltage	6.3V	10V	16V	20V	25V	35V	40V	50V

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

3. Capacitance Tolerance

Code	K	L	M
Tolerance	±10%	±15%	±20%

4. Dimension

Code	00500095	00630085	01000120
Dimension (mm)	5x9.5	6.3x8.5	10x12

5. Pitch

Code	020	025	035	050	075	100
Pitch (mm)	2.0	2.5	3.5	5.0	7.5	10.0

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

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