

Kingtronics®

GKT-AX

Polymer Aluminum Solid Electrolytic Capacitor

FEATURES

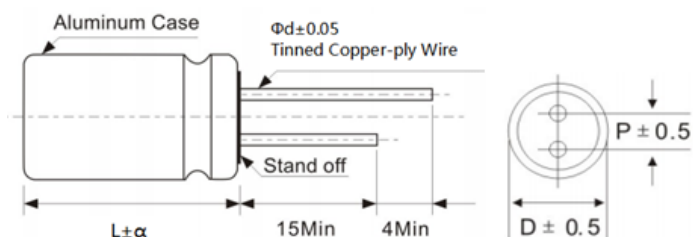
- ◆ Low ESR, high ripple current, high temperature
- ◆ Endurance:2000 hours at 125°C



SPECIFICATIONS

Category Temperature Range (°C)	-55°C~ +125°C											
Rated Voltage Range	2.5 ~ 25V											
Capacitance Tolerance (20°C, 120Hz)	±20%											
Leakage Current	I≤0.2CV or 500µA 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)	2.5	4	6.3	6.8	7.5	10	12	16	20	25	
	Tanδ(Max)	0.08					0.12					
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)			Z(-55°C)/Z(+20°C)			≤1.25			≤1.25		(100KHz)
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										
Leakage current	≅ 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										
Leakage current	≅ 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)	
2.5	560	6.3x8	10	500	1700	
	680	6.3x8	10	500	1700	
	820	8x9	10	500	1929	
	1000	8x9	10	500	1929	
		8x12	10	500	1929	
	1500	8x12	10	750	1929	
4	2200	10x12.5	9	1100	2100	
	560	6.3x8	12	500	1700	
		680	6.3x8	12	544	1700
			8x9	10	544	1929
		820	8x9	10	656	1929
		1000	8x9	10	800	1929
8x12			10	800	1929	
6.3	1500	10x12.5	9	1200	2100	
	220	5x8	18	500	1500	
		6.3x8	15	500	1700	
	330	6.3x8	15	500	1700	
	470	6.3x8	15	592	1700	
	560	6.3x8	15	706	1700	
	680	8x9	12	857	1929	
		820	8x9	12	1033	1929
	1000		8x9	12	1260	1929
		8x12	12	1260	1929	
		10x12.5	12	1260	2100	
	1500	8x12	12	1890	1929	
		10x12.5	12	1890	2100	
	2200	10x12.5	12	2772	2100	
7.5	220	6.3x8	16	500	1700	
	330	6.3x8	16	500	1700	
	470	6.3x8	16	705	1700	
	560	6.3x8	16	840	1700	
	820	8x9	12	1230	1929	
		8x12	12	1230	1929	
	1000	8x12	12	1500	1929	
		10x12.5	12	1500	2100	
	1500	10x12.5	12	2250	2100	

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STANDARD RATINGS

Rated Voltage	Rated Capacitance (μF)	Case Size ΦDxL (mm)	ESR (mΩ) at 20°C, 100 KHz	Leakage Current (μA)	Rated Ripple Current (mArms/125°C/100kHz)
10	220	6.3x8	16	500	1700
	330	6.3x8	16	660	1700
	470	8x9	14	940	1929
	560	8x9	14	1120	1929
		8x12	14	1120	1929
	680	8x12	14	1360	1929
	820	8x12	14	1640	1929
10x12.5		14	1640	2100	
1000	10x12.5	14	2000	2100	
16	100	6.3x8	20	500	920
	220	6.3x8	18	704	950
		8x9	16	704	1850
	330	6.3x9	18	1056	1740
		8x9	16	1056	1850
	470	6.3x12	16	1504	1860
		8x12	15	1504	1920
	680	6.3x12	18	2176	1860
820	6.3x14	18	2624	1920	
1000	8x12	15	3200	1920	
25	100	5x9	50	500	750
		6.3x8	40	500	1100
	150	5x11	40	750	1270
	220	6.3x12	35	1100	1310
		8x9	35	1100	1470
	330	8x12	25	1100	1680
		6.3x12	35	1650	1470
		8x9	35	1650	1470
	470	8x12	25	1650	1680
		6.3x14	25	2350	1680
	560	8x12	25	2350	1680
	680	8x12	25	2800	1680
820	10x12.5	20	3400	1860	
1000	10x12.5	20	4100	1860	
1000	10x12.5	20	5000	1860	

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>AX</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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