

Kingtronics®

GKT-AR

Polymer Aluminum Solid Electrolytic Capacitor

FEATURES

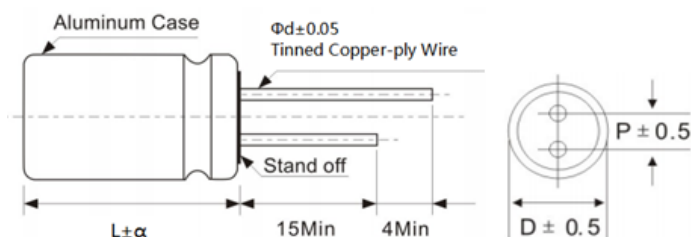
- ◆ Super low ESR, high ripple current
- ◆ Load life of 2000 hours at 105°C



SPECIFICATIONS

Category Temperature Range (°C)	-55°C ~ +105°C											
Rated Voltage Range	2.5 ~ 25V											
Capacitance Tolerance (20°C, 120Hz)	±20%											
Leakage Current	≤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 105°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 105°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	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

α	(L < 16) 1.5
	(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/105°C/100kHz)
2.5	560	5x8	12	500	4100
		6.3x8	8	500	5100
	680	6.3x8	8	500	5100
		8x9	8	500	5900
	820	6.3x8	8	500	5200
		8x9	8	500	5900
	1000	8x9	8x9	8	500
8x12			8	500	6100
8x9		8x9	8	600	5900
		8x12	8	600	6100
1500	8x12	8x12	8	750	6100
4	560	6.3x8	15	500	3100
		8x9	12	500	5100
	680	6.3x8	15	544	3500
		8x9	12	544	5100
	820	6.3x9	15	656	4100
		8x9	12	656	5100
	1000	6.3x12	6.3x12	15	800
8x9			12	800	5100
6.3x12		15	960	4500	
6.3	220	5x8	12	500	3900
		5x8	12	500	3900
	330	5x9.5	12	500	4100
		6.3x8.5	10	500	4450
	390	5x9.5	12	500	4510
		6.3x8	10	500	4800
	470	5x9.5	12	592	4510
6.3x8.5		8	592	4900	
6.3	560	6.3x8.5	8	706	5100
		8x9.5	8	706	5900
	680	6.3x8.5	8	857	5100
		8x9	8	857	5900
	820	6.3x9.5	8	1033	5200
		6.3x11.5	8	1033	5500
		8x9.5	8	1033	5900
	1000	6.3x11.5	8	1260	5500
		8x9.5	8	1260	5900
		8x12	8	1260	6100
	1200	8x9	8	1512	5900
		8x12	8	1512	6100
1500	8x12	8	1890	6100	
	10x12.5	8	1890	6200	
2200	10x12.5	8	2772	6200	

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Rated Voltage	Rated Capacitance (μF)	Case Size ΦDxL (mm)	ESR (mΩ) at 20°C, 100 KHz	Leakage Current (μA)	Rated Ripple Current (mArms/105°C/100kHz)
7.5	270	5x8	12	500	3630
	330	6.3x8	10	500	4100
	390	6.3x8	10	585	4100
	470	6.3x8	10	705	4100
	560	6.3x8	10	840	4500
	680	6.3x12	10	1020	4500
		8x9	8	1020	4800
	820	6.3x12	10	1230	4500
		8x9	8	1230	4800
	1000	8x9	8	1500	4800
		8x12	8	1500	5100
1200	8x12	8	1800	5100	
	10x12.5	8	1800	5500	
	1500	10x12.5	8	2250	5500
10	220	5x8	15	500	3100
		6.3x8	12	500	3500
	270	6.3x8	12	540	3500
		6.3x8	12	660	3750
	330	8x9	10	660	3800
		6.3x8	12	780	3750
	390	6.3x12	12	780	3900
		6.3x8	12	940	3850
	470	8x9	10	940	3950
		6.3x12	12	1120	3900
	560	8x9	10	1120	3950
		6.3x12	12	1360	4100
	680	8x9	10	1360	4200
		8x9	10	1640	4200
	820	8x12	8	1640	4500
		8x12	8	2000	4500
1000	10x12.5	8	2000	5200	
	1200	10x12.5	8	2400	5200
	1500	10x12.5	8	3000	5200
12	220	5x9	15	528	2690
		6.3x8	13	528	2900
	270	6.3x8	13	648	2900
		5x9.5	7	396	4800
	330	6.3x8	13	792	2900
		6.3x8	13	936	2900
	390	6.3x12	13	1128	3500
		8x9	12	1128	3800
	470	6.3x12	13	1344	3500
		8x9	12	1344	3800
	560	6.3x8.5	7	816	5100
		8x9	12	1632	3800
	820	8x12	11	1968	4100
		8x12	11	2400	4100
	1000	10x12.5	10	2400	4800
		1200	10x12.5	10	2880
1500	10x12.5	10	3600	4800	

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Rated Voltage	Rated Capacitance (μF)	Case Size ΦDxL (mm)	ESR (mΩ) at 20°C, 100 KHz	Leakage Current (μA)	Rated Ripple Current (mA rms/105°C/100kHz)
16	100	5x7.5	15	500	2100
	150	5x8	15	500	2100
		6.3x8	13	500	2900
	180	5x9	15	576	2690
		6.3x8	13	576	2900
	220	6.3x8.5	13	704	2900
		6.3x12	13	704	3500
		8x9	12	704	3500
	270	6.3x8.5	13	864	2900
		8x9	12	864	3500
		8x12	11	864	3790
	330	6.3x8.5	13	1056	2900
		6.3x11.5	13	1056	3500
		8x9	12	1056	3500
	470	6.3x11.5	13	1504	3500
8x9.5		12	1504	3500	
8x12		7	752	5100	
560	6.3x12	13	1792	3500	
	8x12	12	1792	3500	
680	8x12	11	2176	4800	
820	8x12	11	2624	4800	
1000	10x12	10	3200	5100	
25	68	6.3x8	25	500	2100
		8x9	20	500	2690
	82	6.3x8	25	500	2100
		8x9	20	500	2690
	100	6.3x8.5	25	500	2100
		8x9	18	500	2690
		8x12	18	500	2900
	150	8x9	18	750	2690
		8x12	18	750	2900
	180	8x12	18	900	2900
	220	8x12	18	1100	2900
	270	10x12.5	15	1350	3500
330	10x12.5	15	1650	3500	
470	10x12	15	2350	3500	
35	100	6.3x8.5	15	350	2900
	470	10x12	10	1645	4900

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.

Kingtronics® International Company

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HOW TO ORDER

<u>GKT</u>	<u>AR</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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