

Kingtronics®

GKT-VZ

Aluminum Electrolytic Capacitor– SMD

FEATURES

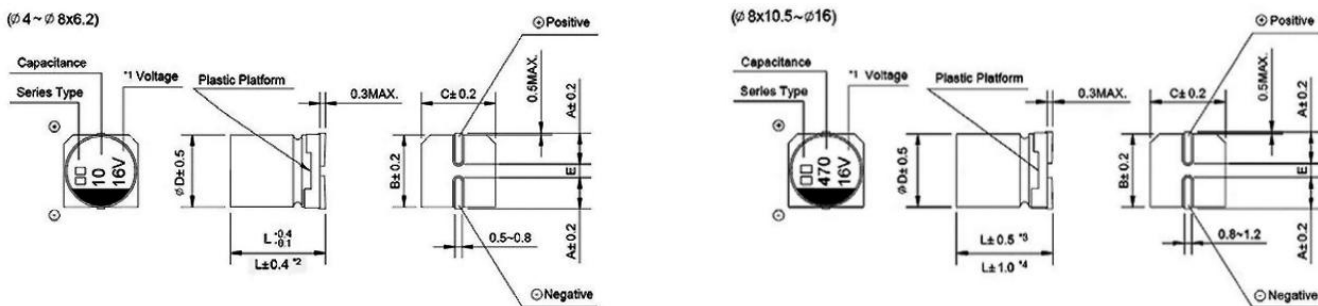
- ◆ Low impedance with temperature range -55 ~ +105°C.
- ◆ Load life of 1000 ~ 2000 hours..
- ◆ Comply with the RoHS directive.



SPECIFICATIONS

OPERATING TEMPERATURE	-55°C ~ +105°C								
Voltage Range	6.3V ~ 50V.DC								
Capacitance Range	1 ~ 4700μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	Leakage current (Φ4~Φ10) ≤0.01CV or 3μA, whichever is greater (After 2 minutes application of rated voltage) Leakage current (Φ12.5~Φ16) ≤0.03CV or 4μA, whichever is greater (After 1 minutes application of rated voltage)								
Dissipation Factor (Tan δ)	Measurement Frequency: 120Hz, Temperature: 20°C								
		Rated Voltage (V)		6.3	10	16	25	35	50
	Tan δ (Max.)	Φ4~Φ10	Φ12.5~Φ16	0.22	0.19	0.16	0.14	0.12	0.12
Stability At Low Temp.	Measurement Frequency: 120Hz								
		Rated Voltage (V)		6.3	10	16	25	35	50
	Impedance Ratio ZT/Z20 (Max.)	Φ4~Φ10	Z(-25°C)/ Z(20°C)	2	2	2	2	2	2
			Z(-55°C)/ Z(20°C)	5	4	4	3	3	3
	Φ12.5~Φ16	Z(-25°C)/ Z(20°C)	3	3	2	2	2	2	
		Z(-55°C)/ Z(20°C)	10	8	6	4	3	3	
Load Life	After 2000 hours. (1000 hours for Ø4~ Ø6.3*5.4)application of rated voltage at 105°C. They meet the characteristics listed at right.								
	Capacitance Change	Within ± 20% of initial value.							
	Dissipation Factor	200% or less of initial specified value							
	Leakage Current	Initial specified value or less							
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours. They meet the specified value for load life characteristics listed above.								
Resistance to Soldering Heat	After reflow soldering and restored at room temperature, they meet the characteristics listed at right.								
	Capacitance Change	Within ± 10% of initial value							
	Dissipation Factor	Initial specified value or less							
	Leakage Current	Initial specified value or less							

DRAWING (Unit: mm)



*1 Voltage mark for 6.3V is [6V] *2 Applicable to Φ6.3*7.7 *3 Applicable to Φ8*10.5~Φ10 *4 Applicable to Φ12.5~Φ16
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DIMENSIONS (Unit: mm)

ØDxL	4x5.4	5x5.4	6.3x5.4/7.7	8x6.2	8x10.5	10x10.5/13.5	12.5x13.5/16	16x16.5
A	2.0	2.2	2.6	3.4	3.0	3.3	4.9	5.8
B	4.3	5.3	6.6	8.4	8.4	10.4	13.0	17.0
C	4.3	5.3	6.6	8.4	8.4	10.4	13.0	17.0
E±0.2	1.0	1.4	1.9	2.3	3.1	4.7	4.7	6.4
L	5.4	5.4	5.4/7.7	6.2	10.5	10.5/13.5	13.5/16	16.5

DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE

WV Cap.(µF)		6.3			10			16		
		0J			1A			1C		
10	100							4x5.4	3.0	60
15	150							5x5.4 (4x5.4)	1.8 (3.0)	95 (60)
22	220	4x5.4	3.0	60	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)
33	330	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)
47	470	5x5.4 (4x5.4)	1.8 (3.0)	95 (60)	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)
68	680	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)	6.3x5.4	1.0	140	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)
100	101	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)
150	151	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7	0.6	230
220	221	6.3x7.7 (6.3x5.4)	0.6 (1.0)	230 (140)	6.3x7.7	0.6	230	8x10.5 (6.3x7.7)	0.3 (0.6)	450 (230)
330	331	6.3x7.7	0.6	230	8x10.5	0.3	450	10x10.5 (8x10.5)	0.15 (0.3)	670 (450)
470	471	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5 (8x10.5)	0.15 (0.3)	670 (450)
680	681	8x10.5	0.3	450	10x10.5	0.15	670	10x10.5	0.15	670
1000	102	10x10.5 (8x10.5)	0.15 (0.3)	670 (450)	10x10.5	0.15	670	10x10.5	0.15	670
1500	152	10x13.5 (10x10.5)	0.13 (0.15)	750 (670)	12.5x13.5 (10x13.5)	0.11 (0.13)	820 (750)	12.5x13.5	0.11	820
2200	222	12.5x13.5 (10x13.5)	0.11 (0.13)	820 (750)	12.5x16	0.09	950	16x16.5 (12.5x16)	0.08 (0.09)	1260 (950)
3300	332	12.5x16 (12.5x13.5)	0.09 (0.11)	950 (820)	16x16.5	0.08	1260	16x16.5	0.08	1260
4700	472	16x16.5	0.08	1260	16x16.5	0.08	1260	Case Size ØDxL(mm)	Impedance (Ω) at 20°C 100kHz	Ripple Current (mA rms) at 105°C 100kHz

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GKT-VA

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FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency		50Hz	120Hz	300Hz	1KHz	10KHz~	
Coefficient	Ø4~Ø10	1~68µF	0.35	0.50	0.64	0.83	1.00
		100~2200µF	0.40	0.55	0.70	0.85	1.00
	Ø12.5~Ø16	~680µF	0.45	0.65	0.80	0.90	1.00
		1000~4700µF	0.65	0.85	0.95	1.00	1.00

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GKT-VZ

Aluminum Electrolytic Capacitor– SMD

HOW TO ORDER

<u>GKT</u>	<u>VZ</u>	<u>0J</u>	<u>M</u>	<u>220</u>	<u>040054</u>	<u>T</u>	<u>R</u>
Series	Sub Series	Voltage	Capacitance Tolerance	Capacitance	Case Size	Packing	Pb
		1.	2.	3.	4.	5.	6.

NOTE:

1. Rated Voltage

Code	0G	0J	1A	1C	1E	1V	1H	1J	2A
Voltage	4	6.3	10	16	25	35	50	63	100

2. Capacitance Tolerance

Code	K	M	Q	T
Tolerance	±10%	±20%	+30-10%	+50-10%

3. Capacitance

Code	0R1	R47	010	4R7	100	470	101	471	102	472	103
Capacitance (µF)	0.1	0.47	1	4.7	10	47	100	470	1000	4700	10000

4. Case Size

Code	040054	050054	063054	080105	100105	125135	160215
Case Size (mm)	4x5.4	5x5.4	6.3x5.4	8x10.5	10x10.5	12.5x13.5	16x21.5

5. Packing

Code	T
Packing	Tape & Reel

6. Pb

Code	R
Pb	RoHS

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