

Kingtronics®

GKT-VE

Aluminum Electrolytic Capacitor– SMD

FEATURES

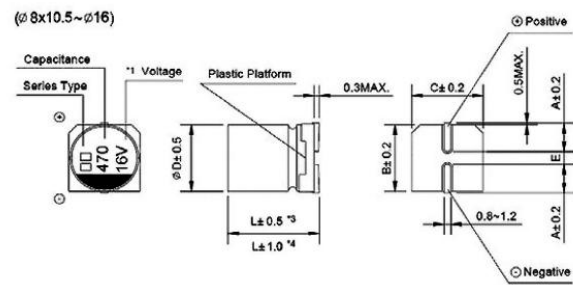
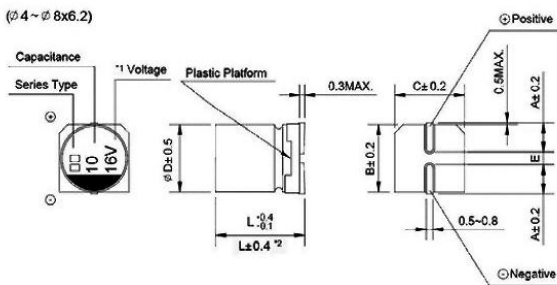
- ◆ Wide temperature range -55~+105°C.
- ◆ Load life of 2000~3000 hours
- ◆ Comply with the RoHS directive.



SPECIFICATIONS

OPERATING TEMPERATURE	-55°C ~ +105°C								
Voltage Range	6.3V ~ 50V.DC								
Capacitance Range	0.1 ~ 1500µF								
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	Φ4~Φ10	0.28	0.24	0.20	0.16	0.13	0.12	
	(Max.)	Φ12.5~Φ16	0.38	0.34	0.30	0.26	0.22	0.18	
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)	3	3	2	2	2	2
			Z(-55°C)/ Z(20°C)	8	5	4	3	3	3
		Φ12.5~Φ16	Z(-25°C)/ Z(20°C)	5	4	3	2	2	2
			Z(-55°C)/ Z(20°C)	12	10	8	5	4	3
Load Life	After 3000 hours' (2000 hours for Ø4~ Ø6.3 and Ø 8*6.2) application of rated voltage at 105°C , They meet the characteristics listed at right.								
	Capacitance Change	Within ± 25% of initial value							
	Leakage Current	Initial specified value or less							
	Dissipation Factor	200% or less of initial specified value							
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, They meet the specified value for 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)

ØD×L	4×5.4	5×5.8	6.3×5.4	6.3×7.7	8×6.2	8×10.5	10×10.5	10×13.5	12.5×13.5	12.5×16	16×16.5
A	2.0	2.2	2.6	2.6	3.4	3.0	3.3	3.3	4.9	4.9	5.8
B	4.3	5.3	6.6	6.6	8.4	8.4	10.4	10.4	13.0	13.0	17.0
C	4.3	5.3	6.6	6.6	8.4	8.4	10.4	10.4	13.0	13.0	17.0
E±0.2	1.0	1.4	1.9	1.9	2.3	3.1	4.7	4.7	4.7	4.7	6.4
L	5.8	5.8	5.8	7.7	6.2	10.5	10.5	13.5	13.5	16.0	16.5

DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV/V		6.3		10		16		25		35		50	
Cap/μF		0J		1A		1C		1E		1V		1H	
0.1	0R1											4×5.4	1
0.22	R22											4×5.4	2
0.33	R33											4×5.4	3
0.47	R47											4×5.4	5
1	010											4×5.4	10
2.2	2R2											4×5.4	16
3.3	3R3											4×5.4	16
4.7	4R7							4×5.4	13	4×5.4	14	5×5.8	23
10	100	--	--	--	--	4×5.4	18	5×5.8	20	5×5.8	21	6.3×5.4	35
22	220	4×5.4	22	5×5.8	25	5×5.8	27	6.3×5.4	36	6.3×5.4	38	6.3×7.7 (8×6.2)	70 (70)
33	330	5×5.8	27	5×5.8	30	6.3×5.4	40	6.3×5.4	60	6.3×7.7 (8×6.2)	84 (84)	8×10.5	90
47	470	5×5.8	33	6.3×5.4	41	6.3×5.4	48	6.3×7.7 (8×6.2)	90 (91)	8×10.5	98	8×10.5	90
100	101	6.3×5.4	50	6.3×5.4 (8×6.2)	53 (110)	6.3×5.4	60	8×10.5	130	8×10.5	130	10×10.5	100
150	151	6.3×5.4	55	6.3×7.7	105	6.3×7.7	95	8×10.5	140	10×10.5	315	10×10.5	100
220	221	6.3×7.7	100	8×10.5	210	8×10.5	210	10×10.5	190	10×10.5	315	10×13.5 (10×10.5)	250 (100)
330	331	8×10.5	210	8×10.5	210	8×10.5	210	10×10.5	315	10×10.5	315	12.5×13.5	400
470	471	8×10.5	210	10×10.5	315	10×10.5	315	10×10.5	315	12.5×13.5 (10×13.5)	500 (360)	16×16.5 (12.5×16)	650 (500)
680	681	8×10.5	210	10×10.5	315	10×10.5	315	10×13.5	380	12.5×13.5	500		
1000	102	10×10.5	315	10×13.5 (10×10.5)	360 (315)	12.5×13.5 (10×13.5) (10×10.5)	450 (350) (315)	12.5×13.5	550	16×16.5 (12.5×16)	700 (550)		
1500	152	10×13.5 (10×10.5)	450 (315)	12.5×13.5	500	12.5×13.5	500	12.5×16	800				
2200	222	12.5×13.5	620	12.5×16 (12.5×13.5)	650 (600)	16×16.5	900	16×16.5	1000				
3300	332	12.5×16	750	16×16.5	950							Case Size	Ripple Current

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency		50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient	Φ4~Φ10	0.1~100μF	0.70	1.00	1.17	1.50
		150~1500μF	0.85	1.00	1.08	1.30
	Φ12.5~Φ16	~470μF	0.75	1.00	1.35	2.00
		680~3300μF	0.85	1.00	1.23	1.50

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HOW TO ORDER

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

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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