

# Kingtronics®

# GKT-VC

## Aluminum Electrolytic Capacitor – SMD

### FEATURES

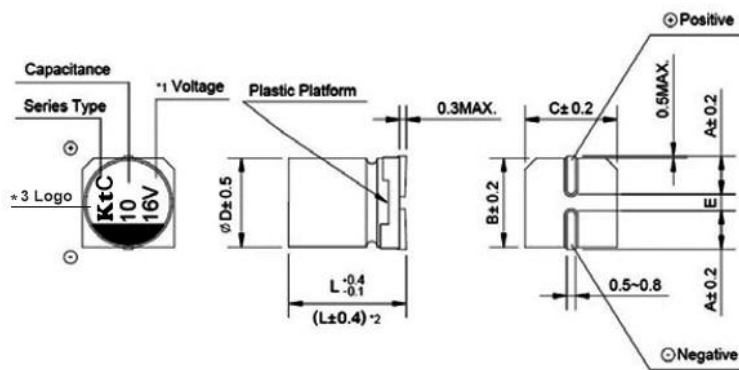
- ◆ Low leakage current (0.5~3.3µA Max.)
- ◆ 105°C 2,000hours Solvent proof (within 2 minutes)



### SPECIFICATIONS

Rated voltage (V)	-	6.3	10	16	25	35	50	
Surge voltage (V)	Room temperature	8.0	13	20	32	44	63	
Category temperature range (°C)	-	-40 to +105						
Capacitance tolerance (%)	120Hz/20°C	M : ±20						
Dissipation Factor (Tan δ)	tanδ (max) 120Hz/20°C	0.24	0.20	0.18	0.16	0.14	0.12	
Leakage current (LC)	µA/after 2minutes (max)	The greater value of either 0.002CV or 0.5µA						
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C	Z/Z20°C	4	3	2	2	2
		-40°C	Z/Z20°C	10	7	5	3	3
Endurance	105°C, 2,000hours rated voltage applied (With the rated ripple current)	ΔC/C	Within ±20% of the initial value					
		tanδ	Less than 200% of the specified value					
		LC	Less than the specified value					

### DRAWING (Unit: mm)



ΦDxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7
A	2.0	2.2	2.6	2.6
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E±0.2	1.0	1.3	2.2	2.2
L	5.4	5.4	5.4	7.7

\*1 Voltage mark for 6.3V is [6V] or [6.3V]   \*2 Applicable to Φ6.3   \*3 Kt logo mark for D:4mm & 5mm is [K]   Product Markings: KtC, KC, SC

Please visit our website to get more update data, those data & specification are subject to change without notice.

**Kingtronics® International Company**

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**FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT**

Frequency: F(Hz)	50Hz	120Hz	300Hz	1KHz	10kHz±F
Capacitance: C (µF) All ITEM	0.70	1.00	1.17	1.30	1.50

**DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT&ESR**

WV		6.3(0J)			10(1A)			16(1C)		
		Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz	Ripple current (mA rms) at 105°C 120Hz	Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz	Ripple current (mA rms) at 105°C 120Hz	Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz	Ripple current (mA rms) at 105°C 120Hz
µF	Parameter									
10	100							4x5.4	34.5	25
22	220	4x5.4	23.5	31	5x5.4	19.6	35	5x5.4	15.7	39
33	330	5x5.4	15.7	39	5x5.4	13.1	43	6.3x5.4	10.5	57
47	470	5x5.4	11.0	47	6.3x5.4	9.2	59	6.3x5.4	7.3	68
100	101	6.3x5.4	5.2	75	6.3x5.4	4.3	76	6.3x7.7	3.5	96
220	221	6.3x7.7	2.4	85						

**DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT&ESR**

WV		25(1E)			35(1V)			50(1H)		
		Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz,	Ripple current (mA rms) at 105°C 120Hz	Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz,	Ripple current (mA rms) at 105°C 120Hz	Case Size ØDxL (mm)	E.S.R. (Ω) 20°C 120Hz,	Ripple current (mA rms) at 105°C 120Hz
µF	Parameter									
1	010							4x5.4	216	10
2.2	1R2							4x5.4	98	15
3.3	3R3							4x5.4	65	18
4.7	4R7	4x5.4	64.2	19	4x5.4	55.1	20	5x5.4	46	23
10	100	5x5.4	30.2	28	5x5.4	25.9	30	6.3x5.4	22	34
22	220	6.3x5.4	13.7	52	6.3x5.4	11.8	54	6.3x7.7	9.8	85
33	330	6.3x5.4	9.1	63	6.3x7.7	7.8	105			
47	470	6.3x7.7	6.4	100	6.3x7.7	5.5	110			

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### HOW TO ORDER

<u>GKT</u>	<u>VK</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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