

# Kingtronics®

# GKT-VN

## Aluminum Electrolytic Capacitor– SMD

### FEATURES

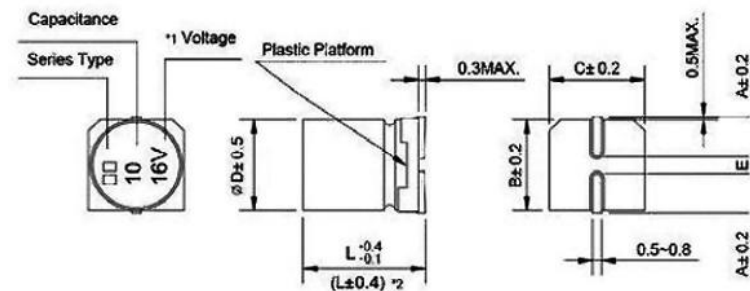
- ◆ Bi-polar with general temperature +85°C
- ◆ Load life of 1000 hours.



### SPECIFICATIONS

<b>OPERATING TEMPERATURE</b>	-40°C ~ +85°C				
<b>Voltage Range</b>	6.3V ~ 50V.DC				
<b>Capacitance Range</b>	0.1 ~ 100µF				
<b>Capacitance Tolerance</b>	±20% at 120Hz, 20°C				
<b>Leakage Current</b>	Leakage current ≤ 0.005CV or 10µA, whichever is greater (After 2 minutes application of rated voltage)				
<b>Dissipation Factor (Tan δ)</b>	Measurement Frequency: 120Hz, Temperature: 20°C				
	Rated Voltage (V)	6.3	10	16,25	35,50
<b>Stability At Low Temp.</b>	Tan δ (Max.)	0.24	0.20	0.17	0.15
	Measurement Frequency: 120Hz				
	Rated Voltage (V)	6.3	10	16,25	35,50
<b>Load Life</b>	Impedance Ratio	Z(-25°C) / Z(20°C)	4	3	2
	ZT / Z20 (Max.)	Z(-40°C) / Z(20°C)	8	6	4
	After 1000 hours application of rated voltage at 85°C (the polarity needs to exchange every 250 hours), Capacitors meet the characteristics listed at right.				
<b>Shelf Life</b>	Capacitance Change	Within ±30% of initial value			
	Dissipation Factor	200% or less of initial specified value			
	Leakage Current	Initial specified value or less			
<b>Resistance to Soldering Heat</b>	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 ∅6.3\*7.7

### DIMENSIONS (Unit: mm)

∅DxL	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	1.4	1.9	1.9
L	5.4	5.4	5.4	7.7

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

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**DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE**

VV/V		6.3		10		16		25		35		50	
Cap/μF		0J		1A		1C		1E		1V		1H	
0.1	0R1	--	--	--	--	--	--	--	--	--	--	4x5.4	1.0
0.22	R22	--	--	--	--	--	--	--	--	--	--	4x5.4	2.0
0.33	R33	--	--	--	--	--	--	--	--	--	--	4x5.4	2.8
0.47	R47	--	--	--	--	--	--	--	--	--	--	4x5.4	4.0
1	010	--	--	--	--	--	--	--	--	--	--	4x5.4	8.4
2.2	2R2	--	--	--	--	--	--	--	--	4x5.4	8.4	5x5.4	13
3.3	3R3	--	--	--	--	--	--	5x5.4	12	5x5.4	16	5x5.4	17
4.7	4R7	--	--	--	--	4x5.4	12	5x5.4	16	5x5.4	18	6.3x5.4	20
10	100	--	--	4x5.4	17	5x5.4	23	6.3x5.4	27	6.3x5.4	29	6.3x7.7	36
22	220	5x5.4	28	6.3x5.4	33	6.3x5.4	37	6.3x7.7	50	6.3x7.7	54	--	--
33	330	6.3x5.4	37	6.3x5.4	41	6.3x5.4	49	6.3x7.7	61	--	--	--	--
47	470	6.3x5.4	45	6.3x7.7	61	6.3x7.7	75	--	--	--	--	--	--
100	101	6.3x7.7	82	6.3x7.7	85	--	--	--	--	--	--	Case size	Allowable ripple

Case Size ØD×L(mm),ripple current(mA rms) at 85°C 120Hz

**FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT**

Frequency	50Hz	120Hz	300Hz	1KHz	10KHz~
<b>Coefficient</b>	0.70	1.00	1.17	1.36	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
		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

Note: Specifications are subject to change without notice.

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