

# Kingtronics®

# GKT-VN

## Aluminum Electrolytic Capacitor– SMD

### FEATURES

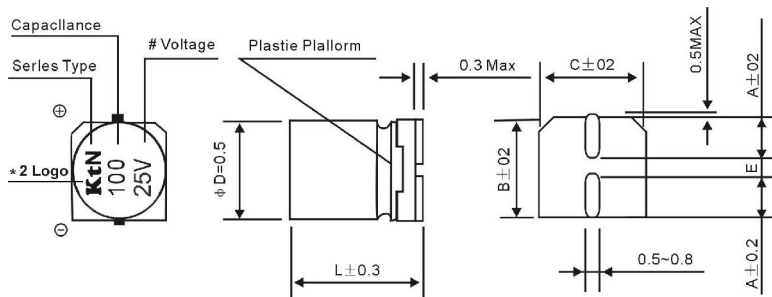
- ◆ Bi-polar with general temperature -55°C~+105°C
- ◆ Load life of 2000 hours.
- ◆ Lead-free reflow soldering is available subject to customers' request.



### SPECIFICATIONS

<b>OPERATING TEMPERATURE</b>	-55°C ~ +105°C					
<b>Voltage Range</b>	6.3V ~ 50V.DC					
<b>Capacitance Range</b>	0.1 ~ 47μF					
<b>Capacitance Tolerance</b>	±20% at 120Hz, 20°C					
<b>Leakage Current</b>	Leakage current ≤ 0.05CV 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	
	Tan δ (Max.)	0.24	0.20	0.17	0.15	
<b>Stability At Low Temp.</b>	Measurement Frequency: 120Hz					
	Rated Voltage (V)					
	Impedance Ratio	Z(-25°C) / Z(20°C)	4	3	2	2
	ZT / Z20 (Max.)	Z(-40°C) / Z(20°C)	8	6	4	3
<b>Load Life</b>	After 2000 hours application of rated voltage at 105°C (the polarity needs to exchange every 250 hours), Capacitors meet the characteristics listed below.					
	Capacitance Change	Within ±20% of initial value				
	Dissipation Factor	200% or less of initial specified value				
	Leakage Current	Initial specified value or less				
<b>Shelf Life</b>	After leaving capacitors under no load at 105°C for 2000 hours, They meet the specified value for load life characteristics listed above.					
<b>Resistance to Soldering Heat</b>	After reflow soldering and restored at room temperature, they meet the characteristics listed below.					
	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 Kt logo mark for D: 4mm & 5mm is [K]

### DIMENSIONS (Unit: mm)

ØDxL	4x5.4	5x5.4	6.3x5.4
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2
L	5.4	5.4	5.4

**Kingtronics® International Company**

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### DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV/V		6.3		10		16		25		35		50	
		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	--	--
22	220	5x5.4	28	6.3x5.4	33	6.3x5.4	37	--	--	--	--	--	--
33	330	6.3x5.4	37	6.3x5.4	41	6.3x5.4	49	--	--	--	--	--	--
47	470	6.3x5.4	45	--	--	--	--	--	--	--	--	Case size	Allowable ripple

Allowable Ripple (mA rms) at 105°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>VN</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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