

Kingtronics®

GKT-VN

Aluminum Electrolytic Capacitor– SMD

FEATURES

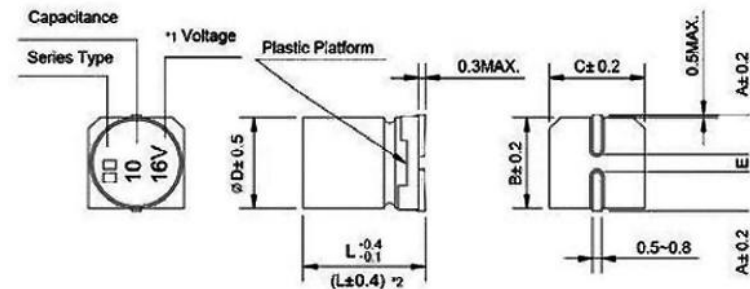
- ◆ Bi-polar with general temperature +85°C
- ◆ Load life of 1000 hours.



SPECIFICATIONS

OPERATING TEMPERATURE	-40°C ~ +85°C					
Voltage Range	6.3V ~ 50V.DC					
Capacitance Range	0.1 ~ 100µF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Leakage Current	Leakage current ≤ 0.005CV or 10µA, whichever is greater (After 2 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	
Stability At Low Temp.	Tan δ (Max.)	0.24	0.20	0.17	0.15	
	Measurement Frequency: 120Hz					
	Rated Voltage (V)	6.3	10	16,25	35,50	
	Impedance Ratio	Z(-25°C) / Z(20°C)	4	3	2	2
Load Life	ZT / Z20 (Max.)	Z(-40°C) / Z(20°C)	8	6	4	3
	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.					
	Capacitance Change	Within ±30% of initial value				
Shelf Life	Dissipation Factor	200% or less of initial specified value				
	Leakage Current	Initial specified value or less				
	After leaving capacitors under no load at 85°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 ∅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~
Coefficient	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

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