

# Kingtronics®

# GKT-VJ

## Aluminum Electrolytic Capacitor – SMD

### FEATURES

- ◆ Endurance : 105°C 2000H.
- ◆ Specially designed for LED display screen.
- ◆ Designed for reflow soldering.
- ◆ Designed for surface mounting on high-density PCB.



### SPECIFICATIONS

<b>OPERATING TEMPERATURE</b>	-40°C ~ +105°C				
<b>Voltage Range</b>	10V ~ 16V.DC				
<b>Capacitance Range</b>	220µF				
<b>Capacitance Tolerance</b>	±20% at 120Hz, 20°C				
<b>Leakage Current</b>	Leakage current ≤ 0.01CV or 3µA., 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)	10	16		
	Tan δ (Max.)	0.24	0.20		
<b>Characteristics at Low Temperature</b>	Measurement Frequency: 120Hz				
	Rated Voltage (V)	10	16		
	Impedance Ratio ZT/Z20 (Max.)	Z(-25°C)/ Z(+20°C)	4	3	
Z(-40°C)/ Z(+20°C)		8	6		
<b>Endurance</b>	After applying rated working voltage for 2000 hours at +105°C ± 2°C, and then being stabilized at +20°C, capacitors shall meet the following limits.				
	Capacitance Change	Within ±30% of the initial value			
	Dissipation Factor	Less than 300% of the initial value			
	Leakage Current	Within the initial limit			
<b>Shelf Life</b>	After storage for 1000 h at +105°C ± 2°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet the limits specified in endurance.				
<b>Resistance to Soldering Heat</b>	After reflow soldering and then being stabilized at +20°C, capacitors shall meet the following limits.				
	Capacitance Change	Within ± 10% of initial value			
	Dissipation Factor	Within the initial limit			
	Leakage Current	Within the initial limit			
<b>Frequency Correction Factor for Ripple Current</b>	Frequency	50Hz	120Hz	1kHz	10kHz ≦
	Correction Factor	0.7	1.0	1.2	1.3

### DRAWING (Unit: mm)



\*1 Product Markings: KtJ, KJ, AJK

							(mm)
ΦD	L	A	B	C	W	P±0.2	
6.3	5.7	6.6	6.6	7.3	0.5-0.8	2.2	
6.3	7.7	6.6	6.6	7.3	0.5-0.8	2.2	

### STANDARD RATINGS

Cap/µF	WV/V	10		16		--	
		1A	75	1C	110	--	--
220	221	6.3x5.7	75	6.3x7.7	110	--	--
		--	--	--	--	Case Size	Ripple Current at 105°C 120Hz

**Kingtronics® International Company**