

Kingtronics®

GKT-VH

Aluminum Electrolytic Capacitor – SMD

FEATURES

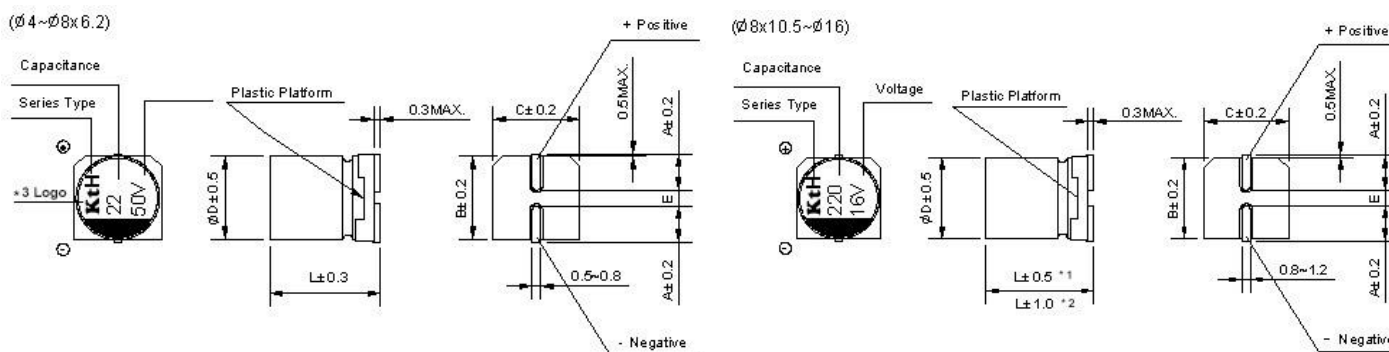
- ◆ 125°C 1,000 to 2,000 hours
- ◆ Solvent proof (within 2 minutes)



SPECIFICATIONS

Rated voltage (V)	-	6.3	10	16	25	35	50	63	100	
Surge voltage (V)	Room temperature	8.0	13	20	32	44	63	79	125	
Category temperature range (°C)	-	-40 to +125								
Capacitance tolerance (%)	120Hz/20°C	M : ±20								
Dissipation Factor (Tan δ)	tanδ (max) 120Hz/20°C	0.30	0.24	0.20	0.18	0.16	0.14	0.12	0.12	
		Exceeding 1,000µF, +0.02 every 1,000µF								
Leakage current (LC)	µA/after 2minutes (max)	The greater value of either 0.01CV or 3µA								
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C	Z/Z20°C	4	3	2	2	2	2	2
		-40°C	Z/Z20°C	8	6	4	3	3	3	3
Endurance	125°C rated voltage applied (With the rated ripple current)	Test	φD=6.3 : 1,000hours. φ8 to φ16 : 2,000hours							
		ΔC/C	Within ±30% of the initial value							
		tanδ	Less than 300% of the specified value							
		LC	Less than the specified value							

DRAWING (Unit: mm)



*1 [L±0.5] is applicable to Φ8×10.5~Φ10
*4 Voltage mark for 6.3V is [6V] or [6.3V]

*2 [L±1.0] is applicable to Φ12.5~Φ16

*3 **KtH** logo mark for D:4mm & 5mm is **[K]** Product Markings: KtH, KH, VH

DIMENSIONS(Unit: mm)

D×L	Φ6.3×5.8	Φ6.3×7.7	Φ8×10.5	Φ10×10.5	Φ12.5×13.5	Φ16×16.5
A	2.4	3.3	2.9	3.2	4.7	5.5
B	6.6	6.6	8.3	10.3	13.0	17.0
C	6.6	6.6	8.3	10.3	13.0	17.0
E±0.2	2.2	2.2	3.1	4.4	4.4	6.4
L	5.8	7.7	10.5	10.5	13.5	16.5

Kingtronics® International Company

Kingtronics®

GKT-VH

Aluminum Electrolytic Capacitor – SMD

DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT

VV		6.3			10			16			25		
Cap. (μF)		0J			1A			1C			1E		
33	330										6.3x5.8	1.60	70
47	470				6.3x5.8	1.60	70	6.3x5.8	1.60	70	6.3x7.7	0.90	110
100	101	6.3x5.8	1.60	70	6.3x7.7	0.90	110	6.3x7.7 (8x10.5)	0.90 (0.40)	110 (160)	6.3x7.7 (8x10.5)	0.90 (0.40)	110 (160)
220	221	6.3x7.7	0.90	110	6.3x7.7 (8x10.5)	0.90 (0.40)	110 (160)	8x10.5	0.40	160	8x10.5 (10x10.5)	0.40 (0.30)	160 (296)
330	331	8x10.5	0.40	160	8x10.5	0.40	160	10x10.5	0.30	296	10x10.5	0.30	296
470	471	8x10.5	0.40	160	10x10.5	0.30	296						
680	681	10x10.5	0.30	296							Case Size	ESR(Ω) 20°C	Ripple Current

ESR (Ω) max at 100kHz, 20°C Rated ripple current mArms (100kHz, 125°C)

VV		35			50			63			100		
Cap. (μF)		1V			1H			1J			2A		
2.2	2R2				6.3x5.8	3.50	45						
3.3	3R3				6.3x5.8	3.50	45						
4.7	4R7	6.3x5.8	2.00	60	6.3x5.8	3.50	45						
10	100	6.3x5.8	1.60	70	6.3x5.8	2.80	50				8x10.5	1.00	70
22	220	6.3x5.8	1.60	70	6.3x7.7	2.00	80	8x10.5	1.00	100	8x10.5	1.00	70
33	330	6.3x7.7	0.90	110	6.3x7.7 (8x10.5)	2.00 (0.70)	80 (140)	8x10.5	1.00	100	10x10.5	0.80	115
47	470	6.3x7.7 (8x10.5)	0.90 (0.40)	110 (160)	8x10.5 (10x10.5)	0.70 (0.50)	140 (247)	8x10.5 (10x10.5)	1.00 (0.50)	100 (150)			
100	101	8x10.5 (10x10.5)	0.40 (0.30)	160 (296)	10x10.5	0.50	247	10x10.5	0.50	150			
220	221	10x10.5	0.30	296							Case Size	ESR(Ω)) 20°C	Ripple Current

ESR (Ω) max at 100kHz, 20°C Rated ripple current mArms (100kHz, 125°C)

Ripple Current Frequency Coefficient

Frequency: F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance: C (μF)	C≤22	0.50	0.80	0.90	1.00
	22<C≤150	0.65	0.85	0.92	1.00
	150<C	0.70	0.85	0.95	1.00

Kingtronics® International Company

Website: www.kingtronics.com

Email: info@kingtronics.com

Tel: (852) 8106 7033

Fax: (852) 8106 7099

Kingtronics®

GKT-VH

Aluminum Electrolytic Capacitor – SMD

HOW TO ORDER

<u>GKT</u>	<u>VH</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

Note: Specifications are subject to change without notice.

Kingtronics® International Company

Website: www.kingtronics.com

Email: info@kingtronics.com

Tel: (852) 8106 7033

Fax: (852) 8106 7099