

SMD Aluminum Electrolytic Capacitor – JCH

FEATURES

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

SPECIFICATIONS

Operating Temperature: -40°C ~ +125°C
 Voltage Range: 6.3V ~ 100V.DC
 Capacitance Tolerance: ±20% at 120Hz, 20°C
 Leakage Current: The greater value of either 0.01CV or 3µA
 Condition: µA/after 2minutes (max)



Fig 1



Fig 2



Fig 3

Note: Fig 1 & 2: Diameter 4 ~ 10mm

Fig 3 : Diameter: ≥ 12.5mm

Dissipation Factor (Tan δ)

Measurement Frequency: 120Hz, Temperature: 20°C, Exceeding 1,000µF, +0.02 every 1,000µF

Rated Voltage (V)	6.3	10	16	25	35	50	63, 100
Surge voltage (V)	8.0	13	20	32	44	63	79, 125
Tan δ (Max.)	0.30	0.24	0.20	0.18	0.16	0.14	0.12

Impedance ratio at low temperature

Based on the value at 120Hz, +20°C

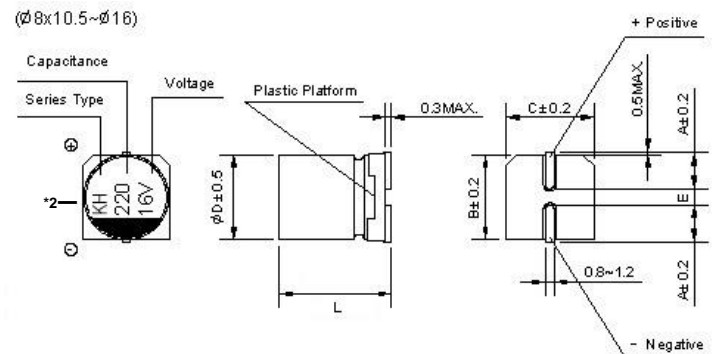
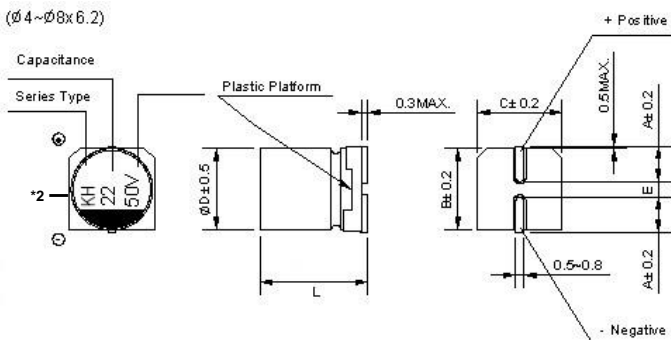
Rated Voltage (V)	6.3	10	16	25	35	50	63, 100
Z(-25°C)/ Z(20°C)	4	3	2	2	2	2	2
Z(-40°C)/ Z(20°C)	8	6	4	3	3	3	3

Endurance

125°C rated voltage applied (With the rated ripple current)

Test	φ D=6.3 : 1,000hours. φ8 to φ16 : 2,000hours
Capacitance Change	Within ±30% of the initial value
Dissipation Factor	Less than 300% of the specified value
Leakage Current	Less than the specified value

DRAWING (Unit: mm)



*1 Voltage mark for 6.3V is [6V] or [6.3V]

*2 Surface Marking Types: jbH, KH, VH

DIMENSIONS(Unit: mm)

DxL	φ6.3x5.8	φ6.3x7.7	φ8x10.5	φ10x10.5	φ12.5x13.5	φ16x16.5
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±0.6	7.7±0.6	10.5±0.6	10.5±0.6	13.5±1.0	16.5±1.0

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DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV		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

WV		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)

Frequency coefficient of allowable ripple current

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