

Aluminum Electrolytic Type / Surface Mount Type

RoHS compliance

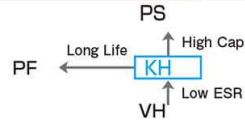
KH Series

125°C Low ESR

High Ripple Current,
High Capacitance



- 125°C 2,000 to 5,000hours
- Solvent proof (within 2 minutes)

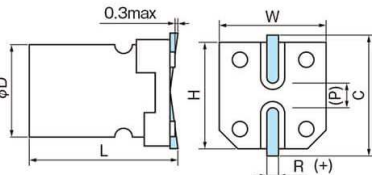
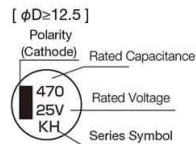
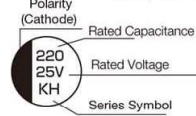


Specifications

Items	Condition	Specifications				
Rated voltage (V)	—	16	25	35	50	
Surge voltage (V)	Room temperature	20	32	44	63	
Category temperature range (°C)	—	-40 to +125				
Capacitance tolerance (%)	120Hz/20°C	M : ±20				
Dissipation Factor (tan δ)	tanδ(max) 120Hz/20°C	0.20	0.16	0.14	0.14	
		Exceeding 1,000μF, +0.02 every 1,000μF				
Leakage current (LC)	μA/after 2 minutes (max)	0.01CV				
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C Z/Z _{20°C}	2	2	2	2
		-40°C Z/Z _{20°C}	4	3	3	3
Endurance	125°C rated voltage applied (With the rated ripple current)	Test	φ6.3 to φ10 : 2,000hours, φ12.5 : 3,000hours, φ16 : 5,000hours			
		ΔC/C	Within ±30% of the initial value			
		tanδ	Less than 300% of the specified value			
		LC	Less than the specified value			

Marking, Dimensions

[φD≤10] Black print on the case top



A pressure relief vent is provided for φD=8 or bigger (P)reference size

(Unit : mm)

D ^{±0.5}	L ^{±0.5}	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	R	P ^{±0.2}
6.3	5.8	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.5	8.3	8.3	9.0	0.7 to 1.2	3.2
10	10.5	10.3	10.3	11.0	0.7 to 1.2	4.6
12.5	13.5	12.8	12.8	13.5	0.7 to 1.2	4.6
16	16.5	16.3	16.3	17.3	1.0 to 1.4	7.0

Ripple Current Frequency Coefficient

Frequency:F(Hz)	100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C(μF) All ITEM	0.55	0.75	0.90	1.00

■ Size, ESR, Rated Ripple Current

μF \ V	16				25				35			
22									6.3×5.8	1.6		110
33					6.3×5.8	1.6		110	6.3×5.8	1.6		110
47	6.3×5.8	1.6		110					6.3×7.7	0.45	5.0	200
100	6.3×7.7	0.45	5.0	200	6.3×7.7	0.45	5.0	200	8×10.5	0.18	3.0	300
160									8×10.5	0.18	3.0	300
220					8×10.5	0.18	3.0	300	10×10.5	0.11	2.0	500
270					8×10.5	0.18	3.0	300				
300									10×10.5	0.11	2.0	500
330	8×10.5	0.18	3.0	300	10×10.5	0.11	2.0	500	12.5×13.5	0.08	1.0	1200
390	8×10.5	0.18	3.0	300								
470	10×10.5	0.11	2.0	500	10×10.5	0.11	2.0	500	12.5×13.5	0.08	1.0	1200
620									12.5×13.5	0.08	1.0	1200
680	10×10.5	0.11	2.0	500	12.5×13.5	0.08	1.0	1200	16×16.5	0.05	0.5	1800
910					12.5×13.5	0.08	1.0	1200				
1000	12.5×13.5	0.08	1.0	1200	16×16.5	0.05	0.5	1800	16×16.5	0.05	0.5	1800
1500	12.5×13.5	0.08	1.0	1200	16×16.5	0.05	0.5	1800				
2200	16×16.5	0.05	0.5	1800								

μF \ V	50			
10	6.3×5.8	2.0		70
47	8×10.5	0.45	5.0	250
100	10×10.5	0.30	3.0	350
220	12.5×13.5	0.15	1.5	700
470	16×16.5	0.09	0.9	1000

Case size: ϕ DxL(mm)

ESR(Ω) max at 100kHz, 20°C

ESR(Ω) max at 100kHz, -40°C

Rated ripple current
mA_{rms}(100kHz, 125°C)