

Aluminum Electrolytic Type / Surface Mount Type

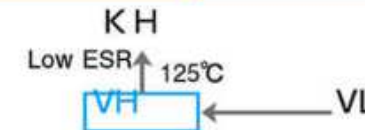
RoHS compliance

VH Series

125°C



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

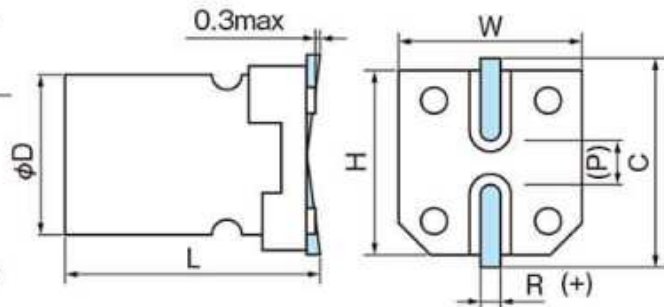
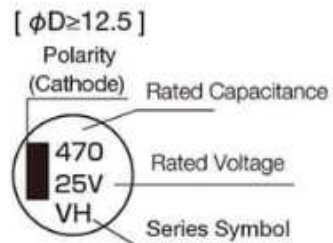
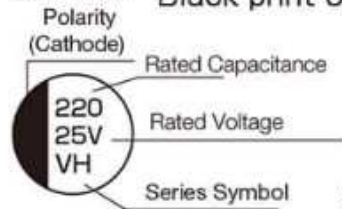


Specifications

Items		Condition		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)	-		-55 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/Z _{20°C}	4	3	2	2	2	2	2	2
		-40°C	Z/Z _{20°C}	8	6	4	3	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							

■ Marking, Dimensions

[$\phi D \leq 10$] Black print on the case top



A pressure relief vent is provided for $\phi D=8$ or bigger
(P)reference size

(Unit : mm)

$D^{+0.5}$	L	$W^{+0.2}$	$H^{+0.2}$	$C^{+0.2}$	R	$P^{+0.2}$
6.3	$5.8^{+0.4}$	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	$7.7^{+0.4}$	6.6	6.6	7.3	0.5 to 0.8	2.2
8	$10.5^{+0.5}$	8.3	8.3	9.2	0.7 to 1.2	3.1
10	$10.5^{+0.5}$	10.3	10.3	11.2	0.7 to 1.2	4.4
12.5	$13.5^{+0.5}$	13.0	13.0	14.0	0.7 to 1.2	4.4
16	$16.5^{+0.5}$	17.0	17.0	18.0	1.0 to 1.4	6.4

■ Ripple Current Frequency Coefficient

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

■ Size, ESR, Rated Ripple Current

μF \ V	6.3			10			16			25		
33										6.3×5.8	1.6	70
47				6.3×5.8	1.6	70	6.3×5.8	1.6	70	6.3×7.7	0.90	110
100							6.3×7.7	0.90	110	6.3×7.7	0.90	110
	6.3×5.8	1.6	70	6.3×7.7	0.90	110	8×10.5	0.40	160	8×10.5	0.40	160
220				6.3×7.7	0.90	110				8×10.5	0.40	160
	6.3×7.7	0.90	110	8×10.5	0.40	160	8×10.5	0.40	160	10×10.5	0.30	296
330										10×10.5	0.30	296
	8×10.5	0.40	160	8×10.5	0.40	160	10×10.5	0.30	296	12.5×13.5	0.12	550
470	8×10.5	0.40	160	10×10.5	0.30	296	12.5×13.5	0.12	550	12.5×13.5	0.12	550
680	10×10.5	0.30	296	12.5×13.5	0.12	550	12.5×13.5	0.12	550	12.5×13.5	0.12	550
1000	12.5×13.5	0.12	550	12.5×13.5	0.12	550	12.5×13.5	0.12	550	16×16.5	0.080	900
1500	12.5×13.5	0.12	550	12.5×13.5	0.12	550	16×16.5	0.080	900	16×16.5	0.080	900
2200	12.5×13.5	0.12	550	16×16.5	0.080	900	16×16.5	0.080	900			
3300	16×16.5	0.080	900	16×16.5	0.080	900						
4700	16×16.5	0.080	900									

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μF \ V	35			50			63			100		
2.2				6.3×5.8	3.5	45						
3.3				6.3×5.8	3.5	45						
4.7	6.3×5.8	2.0	60	6.3×5.8	3.5	45						
10	6.3×5.8	1.6	70	6.3×5.8	2.8	50				8×10.5	1.0	70
22	6.3×5.8	1.6	70	6.3×7.7	2.0	80	8×10.5	1.0	100	8×10.5	1.0	70
33				6.3×7.7	2.0	80						
	6.3×7.7	0.90	110	8×10.5	0.70	140	8×10.5	1.0	100	10×10.5	0.80	115
47	6.3×7.7	0.90	110	8×10.5	0.70	140	8×10.5	1.0	100			
	8×10.5	0.40	160	10×10.5	0.50	247	10×10.5	0.50	150	12.5×13.5	0.33	350
100	8×10.5	0.40	160	10×10.5	0.50	247	10×10.5	0.50	150			
	10×10.5	0.30	296	12.5×13.5	0.23	490	12.5×13.5	0.25	350	16×16.5	0.24	500
220	10×10.5	0.30	296				12.5×13.5	0.25	350			
	12.5×13.5	0.12	550	12.5×13.5	0.23	490	16×16.5	0.18	500			
330				12.5×13.5	0.23	490						
	12.5×13.5	0.12	550	16×16.5	0.15	800	16×16.5	0.18	500			
470	12.5×13.5	0.12	550									
	16×16.5	0.080	900	16×16.5	0.15	800	16×16.5	0.18	500			
680	16×16.5	0.080	900	16×16.5	0.15	800						
1000	16×16.5	0.080	900									

Case size: ϕ DxL(mm)

Rated ripple current
mArms(100kHz, 125°C)

ESR(Ω)
max at 100kHz, 20°C