

LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Downsized snap-ins, 105°C

S Series

3rd generation
 ripple current : 3,000 hours at 105°C
 range: 450 to 500V, Capacitance range: 68 to 1,000μF
 instant type
 ant

KHS

↑ Downsizing
 KMS
 ↑ Downsizing
 KMM

500V Lineup!

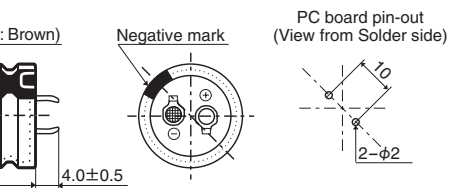


CONDITIONS

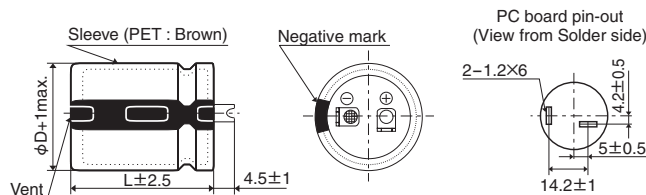
Characteristics	
Temperature range	-25 to +105°C
Rated voltage	450 to 500V _{dc}
Capacitance tolerance	±20% (M) (at 20°C, 120Hz)
Leakage current	$I \leq 3\sqrt{CV}$ Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)
Dielectric loss (tan δ)	0.20 (at 20°C, 120Hz)
Impedance ratio	8 (at 120Hz)
Stability	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 3,000 hours at 105°C.
Capacitance change	≤ ±20% of the initial value
D.F. (tan δ)	≤200% of the initial specified value (475, 500V _{dc} : ≤ 250%)
Leakage current	≤The initial specified value
Stability	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.
Capacitance change	≤ ±15% of the initial value
D.F. (tan δ)	≤150% of the initial specified value
Leakage current	≤The initial specified value

SIZE [mm]

Standard : VS (φ22 to φ35) : Standard

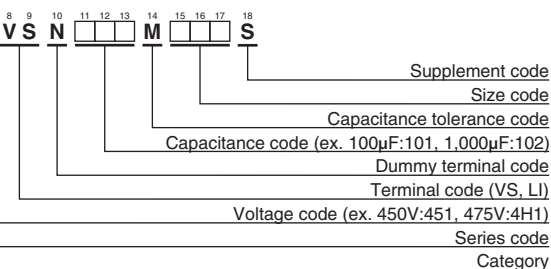


●Terminal Code : LI (φ35)



This design has no plastic disc.

TERMINAL SYSTEM



Product code guide (snap-in type)"

LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Downsized snap-ins, 105°C

Series

RATINGS

Case size D×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	
22 × 25	0.20	0.71	EKHS451VSN101MP25S	475	220	22 × 60	0.20	1.31	EKHS4H1VSN221MP60S	
22 × 30	0.20	0.91	EKHS451VSN151MP30S		220	25.4 × 45	0.20	1.31	EKHS4H1VSN221MQ45S	
22 × 35	0.20	1.02	EKHS451VSN181MP35S		220	30 × 35	0.20	1.26	EKHS4H1VSN221MR35S	
22 × 40	0.20	1.04	EKHS451VSN181MP40S		270	25.4 × 50	0.20	1.47	EKHS4H1VSN271MQ50S	
24 × 25	0.20	1.02	EKHS451VSN181MQ25S		270	30 × 40	0.20	1.44	EKHS4H1VSN271MR40S	
22 × 45	0.20	1.17	EKHS451VSN221MP45S		270	35 × 30	0.20	1.35	EKHS4H1VSN271MA30S	
24 × 30	0.20	1.16	EKHS451VSN221MQ30S		330	25.4 × 60	0.20	1.67	EKHS4H1VSN331MQ60S	
22 × 50	0.20	1.33	EKHS451VSN271MP50S		330	30 × 45	0.20	1.63	EKHS4H1VSN331MR45S	
24 × 35	0.20	1.34	EKHS451VSN271MQ35S		330	35 × 35	0.20	1.51	EKHS4H1VSN331MA35S	
30 × 25	0.20	1.28	EKHS451VSN271MR25S		390	30 × 50	0.20	1.80	EKHS4H1VSN391MR50S	
35 × 25	0.20	1.24	EKHS451VSN271MA25S		390	35 × 40	0.20	1.70	EKHS4H1VSN391MA40S	
22 × 60	0.20	1.54	EKHS451VSN331MP60S		470	30 × 60	0.20	2.05	EKHS4H1VSN471MR60S	
24 × 40	0.20	1.51	EKHS451VSN331MQ40S		470	35 × 45	0.20	1.91	EKHS4H1VSN471MA45S	
30 × 30	0.20	1.43	EKHS451VSN331MR30S		560	35 × 50	0.20	2.13	EKHS4H1VSN561MA50S	
24 × 45	0.20	1.67	EKHS451VSN391MQ45S		680	35 × 60	0.20	2.44	EKHS4H1VSN681MA60S	
30 × 35	0.20	1.59	EKHS451VSN391MR35S		500	68	22 × 25	0.20	0.61	EKHS501VSN680MP25S
35 × 30	0.20	1.52	EKHS451VSN391MA30S			82	22 × 30	0.20	0.70	EKHS501VSN820MP30S
24 × 50	0.20	1.86	EKHS451VSN471MQ50S			82	25.4 × 25	0.20	0.72	EKHS501VSN820MQ25S
30 × 40	0.20	1.79	EKHS451VSN471MR40S			100	22 × 35	0.20	0.79	EKHS501VSN101MP35S
35 × 35	0.20	1.69	EKHS451VSN471MA35S			120	22 × 40	0.20	0.89	EKHS501VSN121MP40S
24 × 60	0.20	2.09	EKHS451VSN561MQ60S			120	25.4 × 30	0.20	0.89	EKHS501VSN121MQ30S
30 × 45	0.20	2.01	EKHS451VSN561MR45S			120	30 × 25	0.20	0.90	EKHS501VSN121MR25S
35 × 40	0.20	1.95	EKHS451VSN561MA40S			150	22 × 45	0.20	1.01	EKHS501VSN151MP45S
30 × 50	0.20	2.25	EKHS451VSN681MR50S			150	25.4 × 35	0.20	1.04	EKHS501VSN151MQ35S
35 × 45	0.20	2.16	EKHS451VSN681MA45S			180	22 × 50	0.20	1.13	EKHS501VSN181MP50S
35 × 50	0.20	2.22	EKHS451VSN681MA50S			180	25.4 × 40	0.20	1.16	EKHS501VSN181MQ40S
30 × 60	0.20	2.56	EKHS451VSN821MR60S			180	25.4 × 45	0.20	1.18	EKHS501VSN181MQ45S
35 × 55	0.20	2.47	EKHS451VSN821MA55S			180	30 × 30	0.20	1.11	EKHS501VSN181MR30S
35 × 60	0.20	2.78	EKHS451VSN102MA60S	180		35 × 25	0.20	1.08	EKHS501VSN181MA25S	
22 × 25	0.20	0.67	EKHS4H1VSN820MP25S	220		22 × 60	0.20	1.31	EKHS501VSN221MP60S	
22 × 30	0.20	0.78	EKHS4H1VSN101MP30S	220		25.4 × 50	0.20	1.33	EKHS501VSN221MQ50S	
24 × 25	0.20	0.79	EKHS4H1VSN101MQ25S	220		30 × 35	0.20	1.26	EKHS501VSN221MR35S	
22 × 35	0.20	0.87	EKHS4H1VSN121MP35S	220		35 × 30	0.20	1.22	EKHS501VSN221MA30S	
24 × 30	0.20	0.89	EKHS4H1VSN121MQ30S	270		25.4 × 60	0.20	1.51	EKHS501VSN271MQ60S	
22 × 40	0.20	0.99	EKHS4H1VSN151MP40S	270		30 × 40	0.20	1.44	EKHS501VSN271MR40S	
22 × 45	0.20	1.01	EKHS4H1VSN151MP45S	270		30 × 45	0.20	1.47	EKHS501VSN271MR45S	
30 × 25	0.20	1.01	EKHS4H1VSN151MR25S	270		35 × 35	0.20	1.37	EKHS501VSN271MA35S	
22 × 50	0.20	1.13	EKHS4H1VSN181MP50S	330		30 × 50	0.20	1.66	EKHS501VSN331MR50S	
24 × 35	0.20	1.14	EKHS4H1VSN181MQ35S	330		35 × 40	0.20	1.57	EKHS501VSN331MA40S	
24 × 40	0.20	1.16	EKHS4H1VSN181MQ40S	390		30 × 60	0.20	1.87	EKHS501VSN391MR60S	
30 × 30	0.20	1.11	EKHS4H1VSN181MR30S	390		35 × 45	0.20	1.74	EKHS501VSN391MA45S	
35 × 25	0.20	1.08	EKHS4H1VSN181MA25S	470		35 × 50	0.20	1.95	EKHS501VSN471MA50S	
				560		35 × 60	0.20	2.22	EKHS501VSN561MA60S	

RIPPLE CURRENT MULTIPLIERS

Multipliers

50	120	300	1k	10k	50k
0.77	1.00	1.16	1.30	1.41	1.43
0.70	1.00	1.16	1.30	1.41	1.43

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.

When long life performance is required in actual use, the rms ripple current has to be reduced.

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