CHEMI-CON LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS



- OLineup of high withstand voltage products for server power supplies and solar power generation applications
- Endurance with ripple current: 3,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant



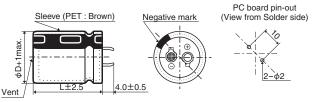


SPECIFICATIONS

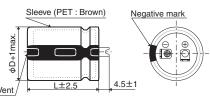
Items	Characteristics							
Category Temperature Range	-40 to +105℃							
Rated Voltage Range	475, 500V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)							
Dissipation Factor	Rated voltage (V _{dc})	475, 500V						
(tan δ)	tan δ (Max.)	0.20			(at 20℃, 120Hz)			
Low Temperature	Rated voltage (Vdc)	475, 500V						
Characteristics	Z(-25°C)/Z(+20°C)	8						
(Max. Impedance Ratio)			•		(at 120Hz)			
Endurance	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 init	tial value					
	D.F. (tan δ)	≦200% of the initi	al specified value					
	Leakage current	≦The initial specif	ied value					
Shelf Life	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 init	tial value		I			
	D.F. (tan δ)	≦150% of the initi	al specified value					
	Leakage current	≦The initial specif	ied value					

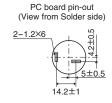
◆DIMENSIONS [mm]

•Terminal Code : VS (φ25.4 to φ35) : Standard



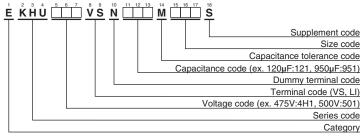
•Terminal Code : LI (φ30, φ35)





The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (snap-in type)"



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STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V _{dc})			tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	
	160	25.4 × 25	0.20	1.07	EKHU4H1VSN161MQ25S		120	25.4 × 25	0.20	0.93	EKHU501VSN121MQ25S	
	200	25.4 × 30	0.20	1.23	EKHU4H1VSN201MQ30S		170	25.4 × 30	0.20	1.13	EKHU501VSN171MQ30S	
	240	30 × 25	0.20	1.38	EKHU4H1VSN241MR25S		190	30 × 25	0.20	1.23	EKHU501VSN191MR25S	
	250	25.4 × 35	0.20	1.43	EKHU4H1VSN251MQ35S		210	25.4 × 35	0.20	1.31	EKHU501VSN211MQ35S	
	280	35 × 25	0.20	1.48	EKHU4H1VSN281MA25S		250	25.4 × 40	0.20	1.46	EKHU501VSN251MQ40S	
	300	25.4 × 40	0.20	1.60	EKHU4H1VSN301MQ40S		250	30 × 30	0.20	1.43	EKHU501VSN251MR30S	
	310	30 × 30	0.20	1.59	EKHU4H1VSN311MR30S		260	35 × 25	0.20	1.43	EKHU501VSN261MA25S	
	350	25.4 × 45	0.20	1.76	EKHU4H1VSN351MQ45S		300	25.4 × 45	0.20	1.63	EKHU501VSN301MQ45S	
	380	30 × 35	0.20	1.80	EKHU4H1VSN381MR35S		320	30 × 35	0.20	1.65	EKHU501VSN321MR35S	
	380	35 × 30	0.20	1.75	EKHU4H1VSN381MA30S		340	25.4 × 50	0.20	1.76	EKHU501VSN341MQ50S	
	390	25.4×50	0.20	1.89	EKHU4H1VSN391MQ50S		340	35 × 30	0.20	1.66	EKHU501VSN341MA30S	
475	440	25.4×55	0.20	2.04	EKHU4H1VSN441MQ55S	500	380	25.4×55	0.20	1.89	EKHU501VSN381MQ55S	
4/3	450	30 × 40	0.20	2.01	EKHU4H1VSN451MR40S	300	380	30 × 40	0.20	1.85	EKHU501VSN381MR40S	
	480	35 × 35	0.20	2.00	EKHU4H1VSN481MA35S		430	25.4 × 60	0.20	2.05	EKHU501VSN431MQ60S	
	490	25.4 × 60	0.20	2.19	EKHU4H1VSN491MQ60S		430	35 × 35	0.20	1.89	EKHU501VSN431MA35S	
	520	30 × 45	0.20	2.22	EKHU4H1VSN521MR45S		450	30 × 45	0.20	2.07	EKHU501VSN451MR45S	
	570	35 × 40	0.20	2.26	EKHU4H1VSN571MA40S		510	30 × 50	0.20	2.24	EKHU501VSN511MR50S	
	590	30 × 50	0.20	2.41	EKHU4H1VSN591MR50S		520	35 × 40	0.20	2.16	EKHU501VSN521MA40S	
	660	30 × 55	0.20	2.59	EKHU4H1VSN661MR55S		580	30 × 55	0.20	2.43	EKHU501VSN581MR55S	
	660	35 × 45	0.20	2.49	EKHU4H1VSN661MA45S		600	35 × 45	0.20	2.37	EKHU501VSN601MA45S	
	730	30 × 60	0.20	2.78	EKHU4H1VSN731MR60S		640	30 × 60	0.20	2.60	EKHU501VSN641MR60S	
	760	35 × 50	0.20	2.72	EKHU4H1VSN761MA50S		690	35 × 50	0.20	2.59	EKHU501VSN691MA50S	
	860	35 × 55	0.20	2.96	EKHU4H1VSN861MA55S		780	35 × 55	0.20	2.82	EKHU501VSN781MA55S	
	950	35 × 60	0.20	3.16	EKHU4H1VSN951MA60S		860	35 × 60	0.20	3.01	EKHU501VSN861MA60S	

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

' '	•					
Frequency(Hz)	50	120	300	1k	10k	50k
475, 500V _{dc}	0.77	1.00	1.11	1.20	1.25	1.33

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
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 The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Part Numbering System
Part Numbering System (Appendix)
Standardization
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming and Packaging
Available Terminals for Snap-in and Screw Mount Type