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: 5,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant



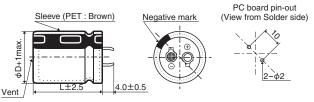


SPECIFICATIONS

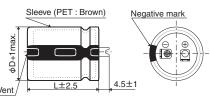
Items	Characteristics							
Category Temperature Range	-40 to +105℃							
Rated Voltage Range	475, 500V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 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 5,000 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 specified 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					
	D.F. (tan δ)	≦150% of the initi	al specified value					
	Leakage current	≦The initial specif	ied value					

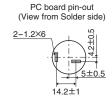
◆DIMENSIONS [mm]

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



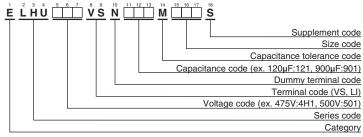
•Terminal Code : LI (φ30, φ35)





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})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
	150	25.4 × 25	0.20	1.03	ELHU4H1VSN151MQ25S		120	25.4 × 25	0.20	0.93	ELHU501VSN121MQ25S
	190	25.4 × 30	0.20	1.20	ELHU4H1VSN191MQ30S		160	25.4 × 30	0.20	1.10	ELHU501VSN161MQ30S
	220	30 × 25	0.20	1.32	ELHU4H1VSN221MR25S		180	30 × 25	0.20	1.20	ELHU501VSN181MR25S
	240	25.4 × 35	0.20	1.40	ELHU4H1VSN241MQ35S		200	25.4 × 35	0.20	1.28	ELHU501VSN201MQ35S
	270	35 × 25	0.20	1.48	ELHU4H1VSN271MA25S		240	25.4 × 40	0.20	1.43	ELHU501VSN241MQ40S
	280	25.4 × 40	0.20	1.54	ELHU4H1VSN281MQ40S		240	30 × 30	0.20	1.40	ELHU501VSN241MR30S
	290	30 × 30	0.20	1.54	ELHU4H1VSN291MR30S		240	35 × 25	0.20	1.37	ELHU501VSN241MA25S
	330	25.4 × 45	0.20	1.71	ELHU4H1VSN331MQ45S		280	25.4 × 45	0.20	1.57	ELHU501VSN281MQ45S
	360	30 × 35	0.20	1.75	ELHU4H1VSN361MR35S		300	30 × 35	0.20	1.60	ELHU501VSN301MR35S
	360	35 × 30	0.20	1.71	ELHU4H1VSN361MA30S		320	25.4 × 50	0.20	1.71	ELHU501VSN321MQ50S
	370	25.4×50	0.20	1.84	ELHU4H1VSN371MQ50S		330	35 × 30	0.20	1.63	ELHU501VSN331MA30S
475	420	25.4×55	0.20	1.99	ELHU4H1VSN421MQ55S	500	370	25.4×55	0.20	1.87	ELHU501VSN371MQ55S
4/3	420	30 × 40	0.20	1.95	ELHU4H1VSN421MR40S	300	370	30 × 40	0.20	1.83	ELHU501VSN371MR40S
	450	35 × 35	0.20	1.94	ELHU4H1VSN451MA35S		410	25.4 × 60	0.20	2.00	ELHU501VSN411MQ60S
	460	25.4 × 60	0.20	2.12	ELHU4H1VSN461MQ60S		410	35 × 35	0.20	1.85	ELHU501VSN411MA35S
	490	30 × 45	0.20	2.16	ELHU4H1VSN491MR45S		430	30 × 45	0.20	2.02	ELHU501VSN431MR45S
	540	35 × 40	0.20	2.20	ELHU4H1VSN541MA40S		490	30 × 50	0.20	2.19	ELHU501VSN491MR50S
	560	30 × 50	0.20	2.34	ELHU4H1VSN561MR50S		490	35 × 40	0.20	2.09	ELHU501VSN491MA40S
	620	30 × 55	0.20	2.51	ELHU4H1VSN621MR55S		550	30 × 55	0.20	2.37	ELHU501VSN551MR55S
	630	35 × 45	0.20	2.43	ELHU4H1VSN631MA45S		580	35 × 45	0.20	2.33	ELHU501VSN581MA45S
	690		ELHU4H1VSN691MR60S		610	30 × 60	0.20	2.54	ELHU501VSN611MR60S		
	720	35 × 50	0.20	2.65	ELHU4H1VSN721MA50S		660	35 × 50	0.20	2.54	ELHU501VSN661MA50S
	810	35 × 55	0.20	2.87	ELHU4H1VSN811MA55S		740	35 × 55	0.20	2.74	ELHU501VSN741MA55S
	900	35 × 60	0.20	3.08	ELHU4H1VSN901MA60S		830	35 × 60	0.20	2.95	ELHU501VSN831MA60S

◆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
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.
 - 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