

LVA

- Designed for automotive application (including On Board Charger) by high vibration resistance structure.
- Endurance with ripple current: 5,000 hours at 105°C
- Rated voltage range: 450Vdc, Capacitance range: 150 to 890μF
- O Non solvent resistant type
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

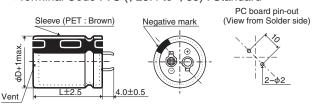


SPECIFICATIONS

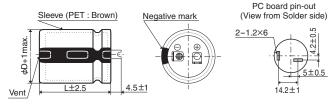
Items	Characteristics								
Category Temperature Range	-40 to +105℃								
Rated Voltage Range	450V _{dc}								
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)								
Leakage Current	$I \le 3\sqrt{CV}$ Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)								
Dissipation Factor	Rated voltage (Vdc)	450V							
(tan δ)	tan δ (Max.)	0.20]		(at 20°C, 120Hz)				
Low Temperature	Rated voltage (Vdc)	450V							
Characteristics	Z(-25°C)/Z(+20°C)	8	1						
(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 ini	itial value						
	D.F. (tan δ)	≦200% of the initi	ial specified value						
	Leakage current	≦The initial specif	fied 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 ini	itial value]					
	D.F. (tan δ)	≦150% of the initi	ial specified value	1					
	Leakage current	≦The initial specif	fied value	1					
Vibration	The following specification shown below) at room tem			are restored to 20°C after subjected	I to vibration test (vibration profile				
	Capacitance change	≦±5% of the initi	ial value						
	D.F. (tan δ)	≦The initial specif	fied value						
	Leakage current	≦The initial specified value							
	Vibration profile								
	Vibration frequency range	10 to 2,000Hz							
	Acceleration	49m/s²(5G)							
	Sweep rate	10 to 2,000 to 10H	dz 20 minutes						
	Direction and period of motion	4 hours in each of 3 mutually perpendicular directions (total of 12 hours)							
	Fixation	Securely attach the main body using a fixing tool. Please contact us for details.							

◆DIMENSIONS [mm]

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

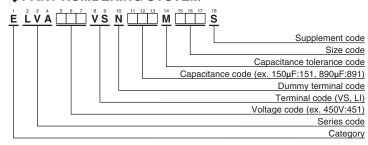


•Terminal Code : LI (φ30, φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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



CHEMI-CON LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS



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)
		150	25.4 × 25	0.20	0.93	ELVA451VSN151MQ25S		410
		190	25.4 × 30	0.20	1.07	ELVA451VSN191MQ30S		440
		210	30 × 25	0.20	1.13	ELVA451VSN211MR25S		450
	450	230	25.4 × 35	0.20	1.23	ELVA451VSN231MQ35S		470
		260	35 × 25	0.20	1.22	ELVA451VSN261MA25S		530
		280	25.4×40	0.20	1.39	ELVA451VSN281MQ40S	450	540
		280	30 × 30	0.20	1.31	ELVA451VSN281MR30S	450	600
		320	25.4 × 45	0.20	1.51	ELVA451VSN321MQ45S		620
		340	30 × 35	0.20	1.48	ELVA451VSN341MR35S		660
		350	35 × 30	0.20	1.44	ELVA451VSN351MA30S		710
		360	25.4 × 50	0.20	1.63	ELVA451VSN361MQ50S		800
		410	25.4 × 55	0.20	1.79	ELVA451VSN411MQ55S		890

	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
	450	410	30 × 40	0.20	1.67	ELVA451VSN411MR40S
		440	35 × 35	0.20	1.64	ELVA451VSN441MA35S
l		450	25.4×60	0.20	1.91	ELVA451VSN451MQ60S
		470	30 × 45	0.20	1.84	ELVA451VSN471MR45S
		530	35 × 40	0.20	1.86	ELVA451VSN531MA40S
		540	30 × 50	0.20	2.00	ELVA451VSN541MR50S
l	450	600	30 × 55	0.20	2.15	ELVA451VSN601MR55S
l		620	35 × 45	0.20	2.06	ELVA451VSN621MA45S
		660	30 × 60	0.20	2.30	ELVA451VSN661MR60S
		710	35 × 50	0.20	2.25	ELVA451VSN711MA50S
		800	35 × 55	0.20	2.44	ELVA451VSN801MA55S
		890	35 × 60	0.20	2.62	ELVA451VSN891MA60S

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
450V	0.77	1.00	1.16	1.30	1.41	1.43

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