

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
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

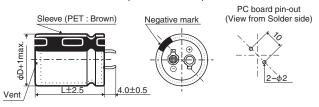


SPECIFICATIONS

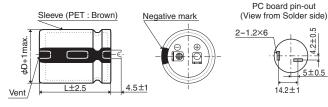
Items	Characteristics							
Category Temperature Range	-40 to +105℃							
Rated Voltage Range	450V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	I ≤3 \sqrt{CV} Where, I : Max. leakage current (μ A), C : Nominal capacitance (μ F), V : Rated voltage (V) (at 20°C after 5 minutes)							
Dissipation Factor	Rated voltage (Vdc)	450V						
(tan δ)	$\tan \delta$ (Max.)	0.20		(at 20℃, 120Hz)				
Low Temperature	Rated voltage (Vdc)	450V						
Characteristics	Z(-25°C)/Z(+20°C)	8						
(Max. Impedance Ratio)				(at 120Hz)				
Endurance	are restored to 20°C after subjected to DC voltage with the rated ed voltage) for 5,000 hours at 105°C.							
	Capacitance change	≤±20% of the initial value						
	D.F. (tan δ)	≤200% of the initial specified value						
	Leakage current	≦The initial specif	fied value					
Shelf Life	restored to 20°C after exposing them for 1,000 hours at 105°C without onditioned by applying voltage according to Item 4.1 of JIS C 5101-4.							
	Capacitance change	≦±15% of the ini	tial value					
	D.F. (tan δ)	≤150% of the initial specified value						
	Leakage current	≦The initial specif	fied value					
Vibration	re restored to 20°C after subjected to vibration test (vibration profile							
	Capacitance change	≦±5% of the initi	al value					
	D.F. (tan δ)	≦The initial specified value						
	Leakage current	≦The initial specified value						
	Vibration profile							
	Vibration frequency range	10 to 2,000Hz						
	Acceleration	49m/s ² (5G)						
	Sweep rate	10 to 2,000 to 10H						
	Direction and period of motion	4 hours in each of 3 mutually perpendicular directions (total of 12 hours) Securely attach the main body using a fixing tool. Please contact us for details.						
	Fixation							

◆DIMENSIONS [mm]

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

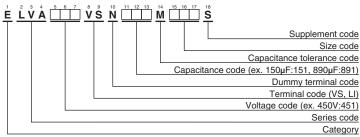


●Terminal Code : LI (φ30, φ35)



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.
	150	25.4 × 25	0.20	0.93	ELVA451VSN151MQ25S
	190	25.4 × 30	0.20	1.07	ELVA451VSN191MQ30S
	210	30 × 25	0.20	1.13	ELVA451VSN211MR25S
	230	25.4 × 35	0.20	1.23	ELVA451VSN231MQ35S
	260	35 × 25	0.20	1.22	ELVA451VSN261MA25S
450	280	25.4 × 40	0.20	1.39	ELVA451VSN281MQ40S
450	280	30 × 30	0.20	1.31	ELVA451VSN281MR30S
	320	25.4 × 45	0.20	1.51	ELVA451VSN321MQ45S
	340	30 × 35	0.20	1.48	ELVA451VSN341MR35S
	350	35 × 30	0.20	1.44	ELVA451VSN351MA30S
	360	25.4 × 50	0.20	1.63	ELVA451VSN361MQ50S
	410	25.4 × 55	0.20	1.79	ELVA451VSN411MQ55S

	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
		410	30 × 40	0.20	1.67	ELVA451VSN411MR40S
	450	440	35 × 35	0.20	1.64	ELVA451VSN441MA35S
		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
	450	600	30 × 55	0.20	2.15	ELVA451VSN601MR55S
		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.
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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

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ALC40E1004EL LGZ2W151MELB40 LGZ2W271MELC45 LGZ2W221MELC40 LGZ2W151MELC30 LGZ2W121MELC25

EHP337M2DO25SW ALA8DA561EF500 DCMC142T250AB2A ESMH630VSN123MA45U ESMH630VRT183MB50U CL271MPI40B

E81D251VNN331MQ35U ELXS451VNN820MP25S ESMM181VSN402QA70U ELXG160VNN562MP25S ESMH160VNN104MA80U

ESMH800VQT223MB80U EKMW421VSN391MQ45S KN821M25035*30C 152EC0351 152EC0354 TLS450V220M35*25

KS200M821SI225*35TA-1B1ET EKHE451VSN102MR60Z TDA63V4700M22*50 V 152EC0325 HP221M450N350AP4 152EC0329

152EC0566 KN331M45035*30A KN821M45035*56P4 152EC0327 HP471M250N300AP4 TLS500V100M25.4*30 V KN331M40030*30A

TLS315VS470M30*30 VS ELXS451VSN181MQ30S KM250M471SI225*35TA-1B3Et KS400M151SI222*30TA-1A1ET 152EC0337

TDA35VS4700M22*30 VS KM450M681SI235*50TA-1A3Et 152EC0340