



- O Higher ripple current on high frequency band
- Endurance with high frequency ripple current: 5,000 hours at 105°C
- Rated voltage range: 400 to 450Vdc, Capacitance range: 85 to 330µF
- Ideal for high frequency drive power conversion system applications such as solar power conditioners
- Non solvent resistant type
- RoHS2 Compliant

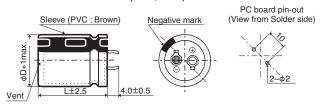


SPECIFICATIONS

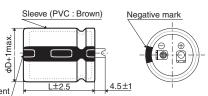
Items	Characteristics							
Category Temperature Range	-40 to +105℃							
Rated Voltage Range	400 to 450V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)							
Dissipation Factor	Rated voltage (V _{dc})	400V	420 & 450V	(at 20 C arter 5 minutes)				
$(\tan \delta)$	tan δ (Max.)	0.15	0.20	(at 20℃, 120Hz)				
Low Temperature	Rated voltage (Vdc)	400V	420 & 450V					
Characteristics	Z(-25°C)/Z(+20°C)	3	8					
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	12	14	(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	tial value					
	D.F. (tan δ)	≦200% of the initi	al specified value					
	Leakage current	≦The initial specif	ied value					
Shelf Life	nelf Life The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105′ voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS voltage.							
	Capacitance change	≦±15% of the ini	tial value					
	D.F. (tan δ)	≦150% of the initial specified value						
	Leakage current	≦The initial specif	ied value					

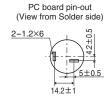
◆DIMENSIONS [mm]

•Terminal Code : VS (φ30, φ35) : Standard



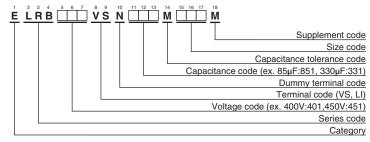
•Terminal Code : LI (φ30, φ35)





The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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





STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 100kHz)	Part No.
	120	30 × 35	0.15	5.54	ELRB401VSN121MR35M
	150	30 × 41	0.15	5.69	ELRB401VSN151MR41M
	170	30 × 46	0.15	5.83	ELRB401VSN171MR46M
	170	35 × 35	0.15	5.87	ELRB401VSN171MA35M
	190	30 × 51	0.15	5.97	ELRB401VSN191MR51M
400	210	30 × 54	0.15	6.06	ELRB401VSN211MR54M
400	210	35 × 41	0.15	6.10	ELRB401VSN211MA41M
	230	30 × 59	0.15	6.20	ELRB401VSN231MR59M
	230	35 × 46	0.15	6.30	ELRB401VSN231MA46M
	270	35 × 51	0.15	6.45	ELRB401VSN271MA51M
	290	35 × 54	0.15	6.60	ELRB401VSN291MA54M
	330	35 × 59	0.15	6.85	ELRB401VSN331MA59M
	100	30 × 35	0.20	4.58	ELRB421VSN101MR35M
	120	30 × 41	0.20	4.91	ELRB421VSN121MR41M
	140	30 × 46	0.20	5.15	ELRB421VSN141MR46M
	140	35 × 35	0.20	5.23	ELRB421VSN141MA35M
	160	30 × 51	0.20	5.39	ELRB421VSN161MR51M
420	170	30 × 54	0.20	5.54	ELRB421VSN171MR54M
420	170	35 × 41	0.20	5.63	ELRB421VSN171MA41M
	190	30 × 59	0.20	5.78	ELRB421VSN191MR59M
	200	35 × 46	0.20	5.95	ELRB421VSN201MA46M
	230	35 × 51	0.20	6.28	ELRB421VSN231MA51M
	250	35 × 54	0.20	6.47	ELRB421VSN251MA54M
	280	35 × 59	0.20	6.72	ELRB421VSN281MA59M

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 100kHz)	Part No.	
	85	30 × 35	0.20	4.58	ELRB451VSN850MR35M	
	110	30 × 41	0.20	4.91	ELRB451VSN111MR41M	
	120	30 × 46	0.20	5.15	ELRB451VSN121MR46M	
	120	35 × 35	0.20	5.23	ELRB451VSN121MA35M	
	140	30 × 51	0.20	5.39	ELRB451VSN141MR51M	
450	150	30 × 54	0.20	5.54	ELRB451VSN151MR54M	
450	150	35 × 41	0.20	5.63	ELRB451VSN151MA41M	
	170	30 × 59	0.20	5.78	ELRB451VSN171MR59M	
	170	35 × 46	0.20	5.95	ELRB451VSN171MA46M	
	200	35 × 51	0.20	6.28	ELRB451VSN201MA51M	
	210	35 × 54	0.20	6.47	ELRB451VSN211MA54M	
	240	35 × 59	0.20	6.72	ELRB451VSN241MA59M	

PRATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

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Frequency(Hz)	50	120	300	1k	10k	50k	100k
400 to 450V	0.22	0.33	0.49	0.73	1.00	1.00	1.00

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