



- Higher ripple current on high frequency band
- Endurance with high frequency ripple current : 3,000 hours at 105°C
- Rated voltage range: 400 to 450Vdc, Capacitance range: 90 to 340µF
- Ideal for high frequency drive power conversion system applications such as solar power conditioners
- Non solvent resistant type
- RoHS2 Compliant

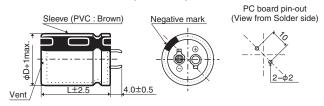


SPECIFICATIONS

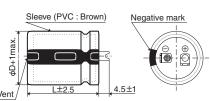
Items	Characteristics							
Category Temperature Range	-40 to +105℃							
Rated Voltage Range	400 to 450V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	I≦3√CV							
	Where, I: Max. leakage of), V : Rated voltage (V) (at 20℃ after 5 minutes)						
Dissipation Factor	Rated voltage (V _{dc})	400V	420 & 450V					
(tan δ)	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		ne 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℃.							
	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	elf 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 voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5							
	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					

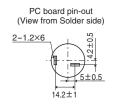
◆DIMENSIONS [mm]

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



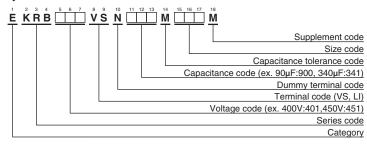
•Terminal Code : LI (φ30, φ35)





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	EKRB401VSN121MR35M		
	150	30 × 41	0.15	5.69	EKRB401VSN151MR41M		
	170	30 × 46	0.15	5.83	EKRB401VSN171MR46M		
	170	35 × 35	0.15	5.87	EKRB401VSN171MA35M		
	200	30 × 51	0.15	5.97	EKRB401VSN201MR51M		
400	210	35 × 41	0.15	6.10	EKRB401VSN211MA41M		
400	220	30 × 54	0.15	6.06	EKRB401VSN221MR54M		
	240	30 × 59	0.15	6.20	EKRB401VSN241MR59M		
	240	35 × 46	0.15	6.30	EKRB401VSN241MA46M		
	280	35 × 51	0.15	6.45	EKRB401VSN281MA51M		
	300	35 × 54	0.15	6.60	EKRB401VSN301MA54M		
	340	35 × 59	0.15	6.85	EKRB401VSN341MA59M		
	100	30 × 35	0.20	4.58	EKRB421VSN101MR35M		
	130	30 × 41	0.20	4.91	EKRB421VSN131MR41M		
	140	30 × 46	0.20	5.15	EKRB421VSN141MR46M		
	140	35 × 35	0.20	5.23	EKRB421VSN141MA35M		
	170	30 × 51	0.20	5.39	EKRB421VSN171MR51M		
420	180	30 × 54	0.20	5.54	EKRB421VSN181MR54M		
420	180	35 × 41	0.20	5.63	EKRB421VSN181MA41M		
	200	30 × 59	0.20	5.78	EKRB421VSN201MR59M		
	210	35 × 46	0.20	5.95	EKRB421VSN211MA46M		
	240	35 × 51	0.20	6.28	EKRB421VSN241MA51M		
	260	35 × 54	0.20	6.47	EKRB421VSN261MA54M		
	290	35 × 59	0.20	6.72	EKRB421VSN291MA59M		

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 100kHz)	Part No.	
	90	30 × 35	0.20	4.58	EKRB451VSN900MR35M	
	110	30 × 41	0.20	4.91	EKRB451VSN111MR41M	
	120	35 × 35	0.20	5.23	EKRB451VSN121MA35M	
	130	30 × 46	0.20	5.15	EKRB451VSN131MR46M	
	150	30 × 51	0.20	5.39	EKRB451VSN151MR51M	
450	160	30 × 54	0.20	5.54	EKRB451VSN161MR54M	
450	160	35 × 41	0.20	5.63	EKRB451VSN161MA41M	
	180	30 × 59	0.20	5.78	EKRB451VSN181MR59M	
	180	35 × 46	0.20	5.95	EKRB451VSN181MA46M	
	210	35 × 51	0.20	6.28	EKRB451VSN211MA51M	
	220	35 × 54	0.20	6.47	EKRB451VSN221MA54M	
	250	35 × 59	0.20	6.72	EKRB451VSN251MA59M	

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.



CHEMI-CON ALUMINUM ELECTROLYTIC CAPACITORS

- 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