



- Higher ripple current from KMT series
- Endurance with ripple current: 3,000 hours at 105°C
- Rated voltage range: 400 to 450Vdc, Capacitance range: 240 to 820µF
- For inverter control, switching power supplies
- Non solvent resistant type
- RoHS2 Compliant



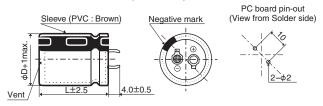


### SPECIFICATIONS

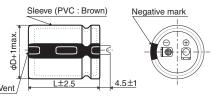
Items	Characteristics									
Category Temperature Range	-40 to +105°C									
Rated Voltage Range	400 to 450V <sub>dc</sub>									
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)									
Leakage Current	I≦3√CV									
	Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20℃ after 5									
Dissipation Factor	Rated voltage (V <sub>dc</sub> )	400V	420 & 450V							
(tan δ)	tan $\delta$ (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 femoling opening and the state of an area of the femoline and the state of the									
	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 $\delta$ )	≦200% of the initi	al specified value							
	Leakage current	≦The initial specif	ied 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	tial value							
	D.F. (tan $\delta$ )	≦150% of the initi	al specified value							
	Leakage current ≦The initial specified value									

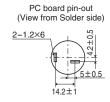
# **◆DIMENSIONS** [mm]

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



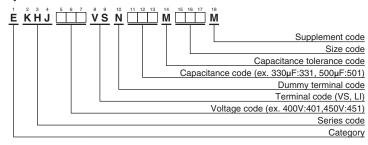
•Terminal Code : LI (φ30, φ35)





The standard design has no plastic disc.

## **◆PART NUMBERING SYSTEM**



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





## **STANDARD RATINGS**

WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	
	280	30 × 35	0.15	2.32	EKHJ401VSN281MR35M		440	35 × 41	0.20	2.99	EKHJ421VSN441MA41M	
	360	30 × 41	0.15	2.71	EKHJ401VSN361MR41M		490	30 × 59	0.20	3.28	EKHJ421VSN491MR59M	
	410	30 × 46	0.15	2.96	EKHJ401VSN411MR46M	420	500	35 × 46	0.20	3.27	EKHJ421VSN501MA46M	
	410	35 × 35	0.15	2.96	EKHJ401VSN411MA35M	420	590	35 × 51	0.20	3.64	EKHJ421VSN591MA51M	
	480	30 × 51	0.15	3.27	EKHJ401VSN481MR51M		630	35 × 54	0.20	3.80	EKHJ421VSN631MA54M	
400	510	35 × 41	0.15	3.43	EKHJ401VSN511MA41M		710	35 × 59	0.20	4.10	EKHJ421VSN711MA59M	
400	520	30 × 54	0.15	3.44	EKHJ401VSN521MR54M		240	30 × 35	0.20	2.12	EKHJ451VSN241MR35M	
	570	30 × 59	0.15	3.67	EKHJ401VSN571MR59M		290	30 × 41	0.20	2.35	EKHJ451VSN291MR41M	
	580	35 × 46	0.15	3.75	EKHJ401VSN581MA46M		330	30 × 46	0.20	2.57	EKHJ451VSN331MR46M	
	680	35 × 51	0.15	4.15	EKHJ401VSN681MA51M		330	35 × 35	0.20	2.50	EKHJ451VSN331MA35M	
	740	35 × 54	0.15	4.38	EKHJ401VSN741MA54M		380	30 × 51	0.20	2.81	EKHJ451VSN381MR51M	
	820	35 × 59	0.15	4.69	EKHJ401VSN821MA59M	450	410	30 × 54	0.20	2.96	EKHJ451VSN411MR54M	
	250	30 × 35	0.20	2.12	EKHJ421VSN251MR35M	450	410	35 × 41	0.20	2.89	EKHJ451VSN411MA41M	
420	310	30 × 41	0.20	2.43	EKHJ421VSN311MR41M		460	30 × 59	0.20	3.18	EKHJ451VSN461MR59M	
	350	35 × 35	0.20	2.57	EKHJ421VSN351MA35M		460	35 × 46	0.20	3.14	EKHJ451VSN461MA46M	
	360	30 × 46	0.20	2.68	EKHJ421VSN361MR46M		550	35 × 51	0.20	3.51	EKHJ451VSN551MA51M	
	420	30 × 51	0.20	2.96	EKHJ421VSN421MR51M		590	35 × 54	0.20	3.68	EKHJ451VSN591MA54M	
	440	30 × 54	0.20	3.06	EKHJ421VSN441MR54M		660	35 × 59	0.20	3.95	EKHJ451VSN661MA59M	

### **◆RATED RIPPLE CURRENT MULTIPLIERS**

# Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
400 to 450V	0.72	1.00	1.21	1.38	1.48	1.46

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