



- 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



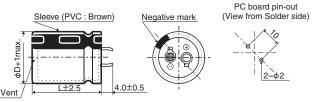


### SPECIFICATIONS

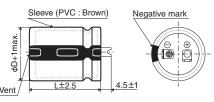
Items	Characteristics								
Category Temperature Range	-40 to +105℃								
Rated Voltage Range	400 to 450V <sub>dc</sub>								
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)								
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)								
Dissipation Factor	Rated voltage (Vdc)	400V	420 & 450V						
(tan δ)	tan δ (Max.)	0.15	0.20	(at 20°C, 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 voltar ripple current is applied (the peak voltage shall not exceed the rated voltage) for 3,000 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  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									
	Capacitance change	≦±15% of the ini	tial value						
	D.F. (tan δ )	≤150% of the initi	al specified value						
	Leakage current	≦The initial specif	ied value						

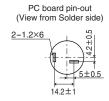
# **◆DIMENSIONS** [mm]

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



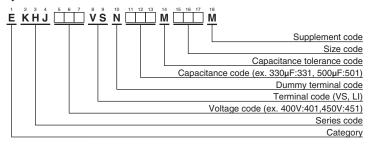
•Terminal Code : LI (φ30, φ35)





The standard design has no plastic disc.

## **◆PART NUMBERING SYSTEM**



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





## **STANDARD RATINGS**

WV (V <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
	310	30 × 41	0.20	2.43	EKHJ421VSN311MR41M		460	30 × 59	0.20	3.18	EKHJ451VSN461MR59M
420	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.
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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