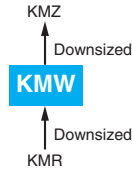




### KMW Series

- Downsized from KMR series
- Endurance with ripple current : 2,000 hours at 105°C
- Rated voltage range : 400 to 450V<sub>dc</sub>, Capacitance range : 120 to 1,000μF
- Non solvent resistant type
- RoHS2 Compliant

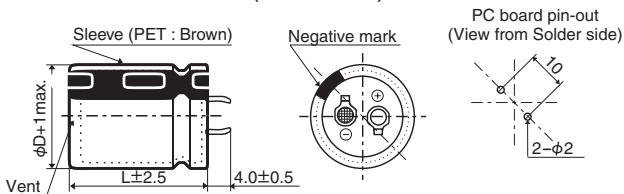


### SPECIFICATIONS

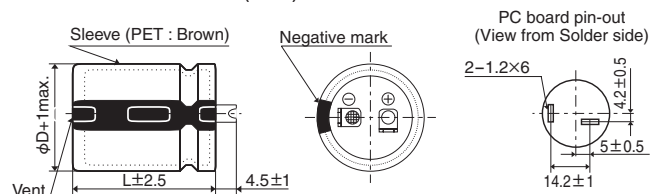
Items	Characteristics		
Category	-25 to +105°C		
Temperature Range	-25 to +105°C		
Rated Voltage Range	400 to 450V <sub>dc</sub>		
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)		
Leakage Current	$I \leq 3\sqrt{CV}$ Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)		
Dissipation Factor (tan δ)	Rated voltage (V <sub>dc</sub> )	400V	420 & 450V
	tan δ (Max.)	0.15	0.20
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	400 to 450V	
	Z(-25°C)/Z(+20°C)	8	
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 2,000 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 specified 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 initial value	
	D.F. (tan δ)	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	

### DIMENSIONS [mm]

● Terminal Code : VS (φ22 to φ35) : Standard

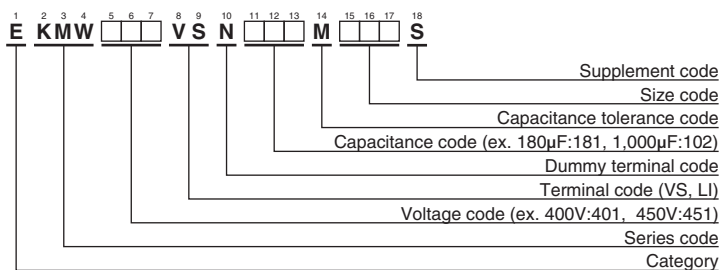


● Terminal Code : LI (φ35)



The standard design has no plastic disc.

### PART NUMBERING SYSTEM



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



## KMW Series

### ◆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.
400	150	22 × 25	0.15	0.91	EKMW401VSN151MP25S	420	330	35 × 25	0.20	1.38	EKMW421VSN331MA25S
	180	22 × 30	0.15	1.04	EKMW401VSN181MP30S		390	25.4 × 45	0.20	1.67	EKMW421VSN391MQ45S
	220	22 × 35	0.15	1.18	EKMW401VSN221MP35S		390	25.4 × 50	0.20	1.70	EKMW421VSN391MQ50S
	220	25.4 × 25	0.15	1.15	EKMW401VSN221MQ25S		390	30 × 35	0.20	1.59	EKMW421VSN391MR35S
	270	25.4 × 30	0.15	1.31	EKMW401VSN271MQ30S		470	30 × 40	0.20	1.79	EKMW421VSN471MR40S
	330	22 × 45	0.15	1.50	EKMW401VSN331MP45S		470	35 × 30	0.20	1.67	EKMW421VSN471MA30S
	330	25.4 × 35	0.15	1.51	EKMW401VSN331MQ35S		560	30 × 45	0.20	2.01	EKMW421VSN561MR45S
	330	30 × 25	0.15	1.46	EKMW401VSN331MR25S		560	35 × 35	0.20	1.85	EKMW421VSN561MA35S
	390	22 × 50	0.15	1.67	EKMW401VSN391MP50S		680	35 × 40	0.20	2.11	EKMW421VSN681MA40S
	390	25.4 × 40	0.15	1.67	EKMW401VSN391MQ40S		450	120	22 × 25	0.20	0.78
	390	30 × 30	0.15	1.61	EKMW401VSN391MR30S	150		22 × 30	0.20	0.91	EKMW451VSN151MP30S
	390	35 × 25	0.15	1.40	EKMW401VSN391MA25S	150		25.4 × 25	0.20	0.93	EKMW451VSN151MQ25S
	470	25.4 × 45	0.15	1.87	EKMW401VSN471MQ45S	180		22 × 35	0.20	1.02	EKMW451VSN181MP35S
	470	30 × 35	0.15	1.81	EKMW401VSN471MR35S	180		25.4 × 30	0.20	1.05	EKMW451VSN181MQ30S
	560	30 × 40	0.15	2.03	EKMW401VSN561MR40S	220		22 × 40	0.20	1.15	EKMW451VSN221MP40S
	560	35 × 30	0.15	1.70	EKMW401VSN561MA30S	220		25.4 × 35	0.20	1.21	EKMW451VSN221MQ35S
	680	30 × 45	0.15	2.29	EKMW401VSN681MR45S	220		30 × 25	0.20	1.15	EKMW451VSN221MR25S
	680	30 × 50	0.15	2.33	EKMW401VSN681MR50S	270		22 × 50	0.20	1.36	EKMW451VSN271MP50S
	680	35 × 35	0.15	1.90	EKMW401VSN681MA35S	270		25.4 × 40	0.20	1.36	EKMW451VSN271MQ40S
	820	35 × 40	0.15	2.16	EKMW401VSN821MA40S	270	30 × 30	0.20	1.29	EKMW451VSN271MR30S	
1,000	35 × 50	0.15	2.50	EKMW401VSN102MA50S	330	25.4 × 45	0.20	1.54	EKMW451VSN331MQ45S		
420	120	22 × 25	0.20	0.78	EKMW421VSN121MP25S	330	30 × 35	0.20	1.46	EKMW451VSN331MR35S	
	150	22 × 30	0.20	0.91	EKMW421VSN151MP30S	390	25.4 × 50	0.20	1.70	EKMW451VSN391MQ50S	
	180	25.4 × 25	0.20	1.02	EKMW421VSN181MQ25S	390	30 × 40	0.20	1.63	EKMW451VSN391MR40S	
	220	25.4 × 30	0.20	1.16	EKMW421VSN221MQ30S	390	35 × 30	0.20	1.52	EKMW451VSN391MA30S	
	270	22 × 45	0.20	1.30	EKMW421VSN271MP45S	470	30 × 45	0.20	1.85	EKMW451VSN471MR45S	
	270	25.4 × 35	0.20	1.34	EKMW421VSN271MQ35S	470	35 × 35	0.20	1.77	EKMW451VSN471MA35S	
	270	30 × 25	0.20	1.28	EKMW421VSN271MR25S	560	30 × 50	0.20	2.04	EKMW451VSN561MR50S	
	330	22 × 50	0.20	1.47	EKMW421VSN331MP50S	560	35 × 40	0.20	2.02	EKMW451VSN561MA40S	
	330	25.4 × 40	0.20	1.51	EKMW421VSN331MQ40S	680	35 × 45	0.20	2.16	EKMW451VSN681MA45S	
	330	30 × 30	0.20	1.43	EKMW421VSN331MR30S	820	35 × 50	0.20	2.42	EKMW451VSN821MA50S	

### ◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
400 to 450V <sub>dc</sub>	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.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.  
Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.
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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.  
The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.  
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](#)

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[Precautions and Guidelines](#)

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[Available Terminals for Snap-in and Screw Mount Type](#)