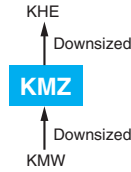


KMZ Series

- The lower temperature range of the category temperature range has been expanded.
- Downsized from KMW series
- Endurance with ripple current : 2,000 hours at 105°C
- Rated voltage range : 420 & 450V_{dc}, Capacitance range : 120 to 820μF
- Non solvent resistant type
- RoHS2 Compliant

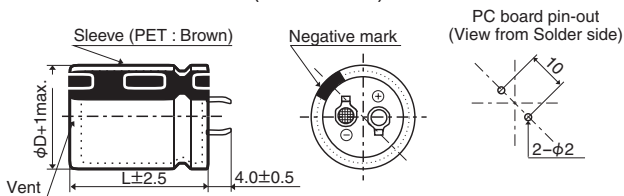


SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-40 to +105°C	
Rated Voltage Range	420 & 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 (tan δ)	Rated voltage (V _{dc})	420 & 450V
	tan δ (Max.)	0.20 (at 20°C, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	420 & 450V
	Z(-25°C)/Z(+20°C)	8 (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 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

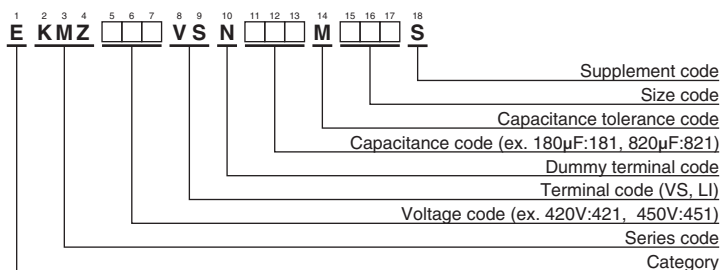
DIMENSIONS [mm]

- Terminal Code : VS (φ22 to φ30) : Standard



The standard design has no plastic disc.

PART NUMBERING SYSTEM



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



KMZ Series

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/105°C, 120Hz)	Part No.
420	150	22 × 25	0.20	0.87	EKMZ421VSN151MP25S
	180	22 × 30	0.20	1.00	EKMZ421VSN181MP30S
	180	25.4 × 25	0.20	1.02	EKMZ421VSN181MQ25S
	220	22 × 35	0.20	1.13	EKMZ421VSN221MP35S
	270	22 × 40	0.20	1.27	EKMZ421VSN271MP40S
	270	25.4 × 30	0.20	1.28	EKMZ421VSN271MQ30S
	270	30 × 25	0.20	1.28	EKMZ421VSN271MR25S
	330	22 × 45	0.20	1.44	EKMZ421VSN331MP45S
	330	25.4 × 35	0.20	1.48	EKMZ421VSN331MQ35S
	390	22 × 55	0.20	1.63	EKMZ421VSN391MP55S
	390	25.4 × 40	0.20	1.64	EKMZ421VSN391MQ40S
	390	30 × 30	0.20	1.55	EKMZ421VSN391MR30S
	470	25.4 × 50	0.20	1.86	EKMZ421VSN471MQ50S
	470	30 × 35	0.20	1.74	EKMZ421VSN471MR35S
	560	25.4 × 55	0.20	2.09	EKMZ421VSN561MQ55S
	560	30 × 40	0.20	1.96	EKMZ421VSN561MR40S
680	30 × 50	0.20	2.25	EKMZ421VSN681MR50S	
820	30 × 55	0.20	2.52	EKMZ421VSN821MR55S	

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/105°C, 120Hz)	Part No.
450	120	22 × 25	0.20	0.78	EKMZ451VSN121MP25S
	180	22 × 30	0.20	1.00	EKMZ451VSN181MP30S
	180	25.4 × 25	0.20	1.02	EKMZ451VSN181MQ25S
	220	22 × 35	0.20	1.13	EKMZ451VSN221MP35S
	220	25.4 × 30	0.20	1.16	EKMZ451VSN221MQ30S
	270	22 × 45	0.20	1.30	EKMZ451VSN271MP45S
	270	25.4 × 35	0.20	1.34	EKMZ451VSN271MQ35S
	270	30 × 25	0.20	1.28	EKMZ451VSN271MR25S
	330	22 × 50	0.20	1.47	EKMZ451VSN331MP50S
	330	25.4 × 40	0.20	1.51	EKMZ451VSN331MQ40S
	330	30 × 30	0.20	1.43	EKMZ451VSN331MR30S
	390	22 × 55	0.20	1.63	EKMZ451VSN391MP55S
	390	25.4 × 45	0.20	1.67	EKMZ451VSN391MQ45S
	390	30 × 35	0.20	1.59	EKMZ451VSN391MR35S
	470	25.4 × 55	0.20	1.91	EKMZ451VSN471MQ55S
	470	30 × 40	0.20	1.79	EKMZ451VSN471MR40S
	560	25.4 × 60	0.20	2.13	EKMZ451VSN561MQ60S
	560	30 × 45	0.20	2.01	EKMZ451VSN561MR45S
680	30 × 50	0.20	2.25	EKMZ451VSN681MR50S	
820	30 × 60	0.20	2.56	EKMZ451VSN821MR60S	

◆RATED RIPPLE CURRENT MULTIPLIERS

⊙ Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
Multipliers	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.
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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
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[Part Numbering System](#)

[Part Numbering System \(Appendix\)](#)

[Standardization](#)

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[Taping, Lead-preforming and Packaging](#)

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

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