CHEMI-CON LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS Downsized snap-ins, 105°C

KHE

KMZ

кмw

Downsized

Downsized



• The lower temperature range of the category temperature range has been expended.

- Downsized from KMW series
- Endurance with ripple current : 2,000 hours at 105°C
- ●Rated voltage range : 420 & 450Vdc, Capacitance range : 120 to 820µF
- ONon solvent resistant type
- RoHS2 Compliant

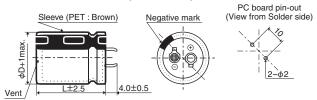
SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-40 to +105℃								
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 minute								
Dissipation Factor	Rated voltage (Vdc)	420 & 450V							
(tan δ)	tan δ (Max.)	0.20			(at 20°C, 120Hz)				
Low Temperature	Rated voltage (Vdc)	420 & 450V							
Characteristics	Z(-25°C)/Z(+20°C)	8							
(Max. Impedance Ratio)		·			(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	$\leq \pm 20\%$ of the init	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 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	$\leq \pm 15\%$ of the init	tial value						
	D.F. (tan δ)	≤150% of the initi	al specified value						
	Leakage current	≦The initial specif	ied value						

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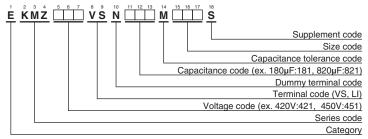
DIMENSIONS [mm]

•Terminal Code : VS (ϕ 22 to ϕ 30) : Standard



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, 120Hz)	Part No.	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
	150	22 × 25	0.20	0.87	EKMZ421VSN151MP25S		120	22 × 25	0.20	0.78	EKMZ451VSN121MP25S
	180	22×30	0.20	1.00	EKMZ421VSN181MP30S		180	22×30	0.20	1.00	EKMZ451VSN181MP30S
	180	25.4×25	0.20	1.02	EKMZ421VSN181MQ25S		180	25.4×25	0.20	1.02	EKMZ451VSN181MQ25S
	220	22 × 35	0.20	1.13	EKMZ421VSN221MP35S		220	22 × 35	0.20	1.13	EKMZ451VSN221MP35S
	270	22 × 40	0.20	1.27	EKMZ421VSN271MP40S		220	25.4×30	0.20	1.16	EKMZ451VSN221MQ30S
	270	25.4×30	0.20	1.28	EKMZ421VSN271MQ30S		270	22×45	0.20	1.30	EKMZ451VSN271MP45S
	270	30 × 25	0.20	1.28	EKMZ421VSN271MR25S		270	25.4×35	0.20	1.34	EKMZ451VSN271MQ35S
	330	22 × 45	0.20	1.44	EKMZ421VSN331MP45S	450	270	30 × 25	0.20	1.28	EKMZ451VSN271MR25S
420	330	25.4×35	0.20	1.48	EKMZ421VSN331MQ35S		330	22×50	0.20	1.47	EKMZ451VSN331MP50S
420	390	22×55	0.20	1.63	EKMZ421VSN391MP55S		330	25.4×40	0.20	1.51	EKMZ451VSN331MQ40S
	390	25.4×40	0.20	1.64	EKMZ421VSN391MQ40S	450	330	30 × 30	0.20	1.43	EKMZ451VSN331MR30S
	390	30 × 30	0.20	1.55	EKMZ421VSN391MR30S		390	22 × 55	0.20	1.63	EKMZ451VSN391MP55S
	470	25.4×50	0.20	1.86	EKMZ421VSN471MQ50S		390	25.4×45	0.20	1.67	EKMZ451VSN391MQ45S
	470	30×35	0.20	1.74	EKMZ421VSN471MR35S		390	30×35	0.20	1.59	EKMZ451VSN391MR35S
	560	25.4×55	0.20	2.09	EKMZ421VSN561MQ55S		470	25.4×55	0.20	1.91	EKMZ451VSN471MQ55S
	560	30 × 40	0.20	1.96	EKMZ421VSN561MR40S		470	30 × 40	0.20	1.79	EKMZ451VSN471MR40S
	680	30×50	0.20	2.25	EKMZ421VSN681MR50S		560	25.4×60	0.20	2.13	EKMZ451VSN561MQ60S
	820	30×55	0.20	2.52	EKMZ421VSN821MR55S		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.

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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.
- 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.

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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