

- 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
- Non solvent resistant type
- ●RoHS2 Compliant



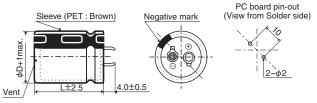


SPECIFICATIONS

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℃ after 5 minutes)							
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 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 init	tial value					
	D.F. (tan δ)	≦200% of the initia	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 init	tial value					
	D.F. (tan δ)	≦150% of the initial	al specified value					
	Leakage current	≦The initial specif	ied value					

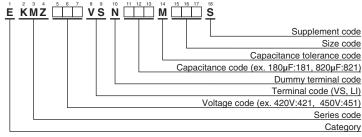
◆DIMENSIONS [mm]

•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)"





STANDARD RATINGS

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
	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
420	330	25.4×35	0.20	1.48	EKMZ421VSN331MQ35S
420	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.
	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
450	330	25.4×40	0.20	1.51	EKMZ451VSN331MQ40S
450	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

TABLE 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.
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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