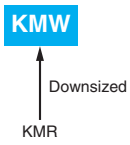
KMW Series

- Downsized from KMR series
- Endurance with ripple current : 2,000 hours at 105℃
- Rated voltage range : 400 to 450Vdc, Capacitance range : 120 to 1,000μF
- Non solvent resistant type
- RoHS2 Compliant

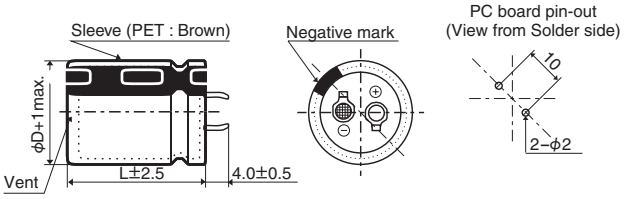


◆SPECIFICATIONS

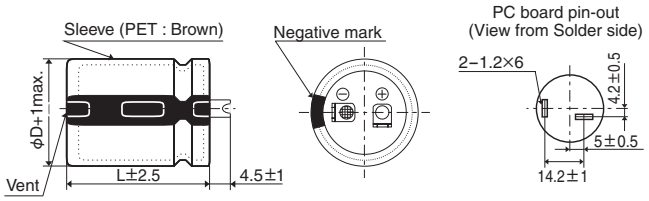
Items	Characteristics			
Category Temperature Range	-25 to +105℃			
Rated Voltage Range	400 to 450Vdc			
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)			(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (Vdc)	400V	420 & 450V	
	tan δ (Max.)	0.15	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	400 to 450V		
	Z(-25℃)/Z(+20℃)	8		(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ 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℃.			
	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℃ after exposing them for 1,000 hours at 105℃ 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

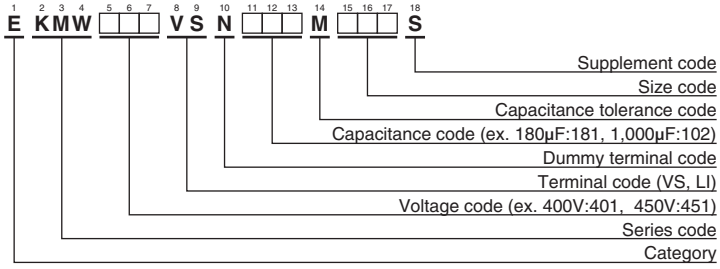


●Terminal Code : LI (φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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

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KMW Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
400	150	22×25	0.15	0.91	EKMW401VSN151MP25S
	180	22×30	0.15	1.04	EKMW401VSN181MP30S
	220	22×35	0.15	1.18	EKMW401VSN221MP35S
	220	25.4×25	0.15	1.15	EKMW401VSN221MQ25S
	270	25.4×30	0.15	1.31	EKMW401VSN271MQ30S
	330	22×45	0.15	1.50	EKMW401VSN331MP45S
	330	25.4×35	0.15	1.51	EKMW401VSN331MQ35S
	330	30×25	0.15	1.46	EKMW401VSN331MR25S
	390	22×50	0.15	1.67	EKMW401VSN391MP50S
	390	25.4×40	0.15	1.67	EKMW401VSN391MQ40S
	390	30×30	0.15	1.61	EKMW401VSN391MR30S
	390	35×25	0.15	1.40	EKMW401VSN391MA25S
	470	25.4×45	0.15	1.87	EKMW401VSN471MQ45S
	470	30×35	0.15	1.81	EKMW401VSN471MR35S
	560	30×40	0.15	2.03	EKMW401VSN561MR40S
	560	35×30	0.15	1.70	EKMW401VSN561MA30S
	680	30×45	0.15	2.29	EKMW401VSN681MR45S
	680	30×50	0.15	2.33	EKMW401VSN681MR50S
	680	35×35	0.15	1.90	EKMW401VSN681MA35S
	820	35×40	0.15	2.16	EKMW401VSN821MA40S
	1,000	35×50	0.15	2.50	EKMW401VSN102MA50S
420	120	22×25	0.20	0.78	EKMW421VSN121MP25S
	150	22×30	0.20	0.91	EKMW421VSN151MP30S
	180	25.4×25	0.20	1.02	EKMW421VSN181MQ25S
	220	25.4×30	0.20	1.16	EKMW421VSN221MQ30S
	270	22×45	0.20	1.30	EKMW421VSN271MP45S
	270	25.4×35	0.20	1.34	EKMW421VSN271MQ35S
	270	30×25	0.20	1.28	EKMW421VSN271MR25S
	330	22×50	0.20	1.47	EKMW421VSN331MP50S
	330	25.4×40	0.20	1.51	EKMW421VSN331MQ40S
	330	30×30	0.20	1.43	EKMW421VSN331MR30S

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
420	330	35×25	0.20	1.38	EKMW421VSN331MA25S
	390	25.4×45	0.20	1.67	EKMW421VSN391MQ45S
	390	25.4×50	0.20	1.70	EKMW421VSN391MQ50S
	390	30×35	0.20	1.59	EKMW421VSN391MR35S
	470	30×40	0.20	1.79	EKMW421VSN471MR40S
	470	35×30	0.20	1.67	EKMW421VSN471MA30S
	560	30×45	0.20	2.01	EKMW421VSN561MR45S
	560	35×35	0.20	1.85	EKMW421VSN561MA35S
	680	35×40	0.20	2.11	EKMW421VSN681MA40S
450	120	22×25	0.20	0.78	EKMW451VSN121MP25S
	150	22×30	0.20	0.91	EKMW451VSN151MP30S
	150	25.4×25	0.20	0.93	EKMW451VSN151MQ25S
	180	22×35	0.20	1.02	EKMW451VSN181MP35S
	180	25.4×30	0.20	1.05	EKMW451VSN181MQ30S
	220	22×40	0.20	1.15	EKMW451VSN221MP40S
	220	25.4×35	0.20	1.21	EKMW451VSN221MQ35S
	220	30×25	0.20	1.15	EKMW451VSN221MR25S
	270	22×50	0.20	1.36	EKMW451VSN271MP50S
	270	25.4×40	0.20	1.36	EKMW451VSN271MQ40S
	270	30×30	0.20	1.29	EKMW451VSN271MR30S
	330	25.4×45	0.20	1.54	EKMW451VSN331MQ45S
	330	30×35	0.20	1.46	EKMW451VSN331MR35S
	390	25.4×50	0.20	1.70	EKMW451VSN391MQ50S
	390	30×40	0.20	1.63	EKMW451VSN391MR40S
	390	35×30	0.20	1.52	EKMW451VSN391MA30S
	470	30×45	0.20	1.85	EKMW451VSN471MR45S
	470	35×35	0.20	1.77	EKMW451VSN471MA35S
	560	30×50	0.20	2.04	EKMW451VSN561MR50S
	560	35×40	0.20	2.02	EKMW451VSN561MA40S
	680	35×45	0.20	2.16	EKMW451VSN681MA45S
	820	35×50	0.20	2.42	EKMW451VSN821MA50S

◆RATED RIPPLE CURRENT MULTIPLIERS

❶Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
400 to 450V_{dc}	0.77	1.00	1.16	1.30	1.41	1.43

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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