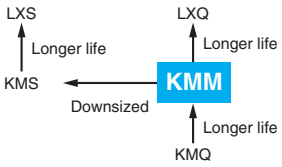
KMM Series

- Longer life from KMQ series
- Endurance with ripple current : 2,000 to 3,000 hours at 105℃
- Non solvent resistant type
- RoHS2 Compliant

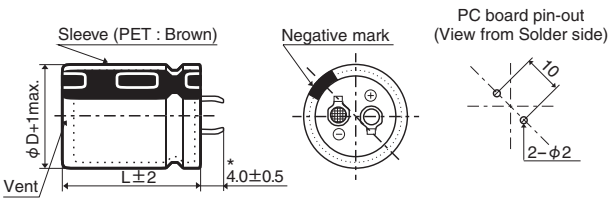


◆SPECIFICATIONS

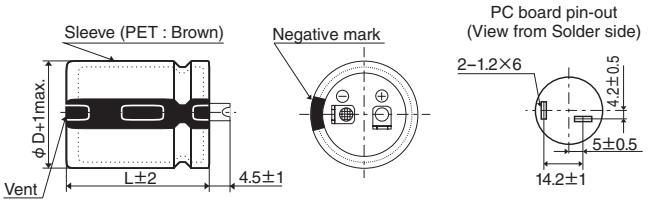
Items	Characteristics			
Category Temperature Range	-25 to +105℃			
Rated Voltage Range	160 to 450V_{dc}			
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)			(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (V_{dc})	160 to 400V	420 & 450V	
	tan δ (Max.)	0.15	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V_{dc})	160 to 400V	420 & 450V	
	Z(-25℃)/Z(+20℃)	4	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 3,000 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

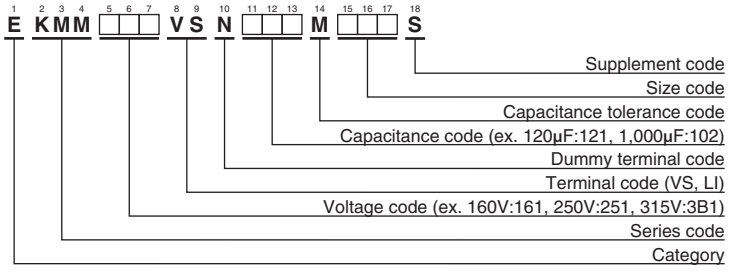


●Terminal Code : LI (φ30, φ35)



*φD=35mm : 3.5±0.5mm
The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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

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KMM Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
160	220	22×20	0.15	0.81	EKMM161VSN221MP20S
	270	25.4×20	0.15	0.98	EKMM161VSN271MQ20S
	330	22×25	0.15	1.20	EKMM161VSN331MP25S
	330	25.4×20	0.15	1.02	EKMM161VSN331MQ20S
	390	22×25	0.15	1.30	EKMM161VSN391MP25S
	390	25.4×25	0.15	1.26	EKMM161VSN391MQ25S
	390	30×20	0.15	1.25	EKMM161VSN391MR20S
	470	22×30	0.15	1.55	EKMM161VSN471MP30S
	470	25.4×25	0.15	1.55	EKMM161VSN471MQ25S
	470	30×20	0.15	1.30	EKMM161VSN471MR20S
	560	22×35	0.15	1.67	EKMM161VSN561MP35S
	560	25.4×30	0.15	1.67	EKMM161VSN561MQ30S
	560	30×25	0.15	1.67	EKMM161VSN561MR25S
	560	35×20	0.15	1.46	EKMM161VSN561MA20S
	680	22×40	0.15	1.82	EKMM161VSN681MP40S
	680	25.4×30	0.15	1.82	EKMM161VSN681MQ30S
	680	30×25	0.15	1.82	EKMM161VSN681MR25S
	680	35×20	0.15	1.51	EKMM161VSN681MA20S
	820	22×45	0.15	2.04	EKMM161VSN821MP45S
	820	25.4×35	0.15	2.04	EKMM161VSN821MQ35S
	820	30×30	0.15	2.04	EKMM161VSN821MR30S
	820	35×25	0.15	2.04	EKMM161VSN821MA25S
	1,000	22×50	0.15	2.25	EKMM161VSN102MP50S
	1,000	25.4×40	0.15	2.25	EKMM161VSN102MQ40S
	1,000	30×30	0.15	2.25	EKMM161VSN102MR30S
	1,000	35×25	0.15	2.25	EKMM161VSN102MA25S
	1,200	25.4×45	0.15	2.49	EKMM161VSN122MQ45S
	1,200	30×35	0.15	2.49	EKMM161VSN122MR35S
	1,200	35×30	0.15	2.49	EKMM161VSN122MA30S
	1,500	25.4×60	0.15	2.97	EKMM161VSN152MQ60S
	1,500	30×40	0.15	2.84	EKMM161VSN152MR40S
	1,500	35×30	0.15	2.84	EKMM161VSN152MA30S
	1,800	30×45	0.15	3.32	EKMM161VSN182MR45S
	1,800	35×35	0.15	3.00	EKMM161VSN182MA35S
	2,200	30×60	0.15	3.86	EKMM161VSN222MR60S
	2,200	35×45	0.15	3.50	EKMM161VSN222MA45S
	2,700	35×50	0.15	4.00	EKMM161VSN272MA50S
	3,300	35×60	0.15	4.63	EKMM161VSN332MA60S
180	180	22×20	0.15	0.80	EKMM181VSN181MP20S
	220	25.4×20	0.15	0.90	EKMM181VSN221MQ20S
	270	22×25	0.15	1.00	EKMM181VSN271MP25S
	270	25.4×20	0.15	0.95	EKMM181VSN271MQ20S
	330	22×25	0.15	1.20	EKMM181VSN331MP25S
	330	25.4×25	0.15	1.16	EKMM181VSN331MQ25S
	330	30×20	0.15	1.15	EKMM181VSN331MR20S
	390	22×30	0.15	1.35	EKMM181VSN391MP30S
	390	25.4×25	0.15	1.35	EKMM181VSN391MQ25S
	390	30×20	0.15	1.20	EKMM181VSN391MR20S
	470	22×35	0.15	1.50	EKMM181VSN471MP35S
	470	25.4×30	0.15	1.50	EKMM181VSN471MQ30S
	470	30×25	0.15	1.50	EKMM181VSN471MR25S
	470	35×20	0.15	1.36	EKMM181VSN471MA20S
	560	22×40	0.15	1.67	EKMM181VSN561MP40S
	560	25.4×30	0.15	1.67	EKMM181VSN561MQ30S
	560	30×25	0.15	1.67	EKMM181VSN561MR25S
	560	35×20	0.15	1.43	EKMM181VSN561MA20S
	680	22×45	0.15	1.78	EKMM181VSN681MP45S
	680	25.4×35	0.15	1.78	EKMM181VSN681MQ35S
	680	30×30	0.15	1.78	EKMM181VSN681MR30S
	680	35×25	0.15	1.83	EKMM181VSN681MA25S
	820	22×50	0.15	2.04	EKMM181VSN821MP50S
	820	25.4×40	0.15	2.04	EKMM181VSN821MQ40S
	820	30×30	0.15	2.04	EKMM181VSN821MR30S
	820	35×25	0.15	2.04	EKMM181VSN821MA25S
	1,000	25.4×45	0.15	2.30	EKMM181VSN102MQ45S
	1,000	30×35	0.15	2.30	EKMM181VSN102MR35S
	1,000	35×30	0.15	2.30	EKMM181VSN102MA30S
180	1,200	25.4×50	0.15	2.55	EKMM181VSN122MQ50S
	1,200	30×40	0.15	2.55	EKMM181VSN122MR40S
	1,200	35×30	0.15	2.55	EKMM181VSN122MA30S
	1,500	30×45	0.15	2.90	EKMM181VSN152MR45S
	1,500	35×35	0.15	2.90	EKMM181VSN152MA35S
	1,800	30×60	0.15	3.49	EKMM181VSN182MR60S
	1,800	35×40	0.15	3.30	EKMM181VSN182MA40S
	2,200	35×50	0.15	3.65	EKMM181VSN222MA50S
	2,700	35×60	0.15	4.19	EKMM181VSN272MA60S
200	150	22×20	0.15	0.73	EKMM201VSN151MP20S
	180	22×20	0.15	0.80	EKMM201VSN181MP20S
	220	25.4×20	0.15	0.85	EKMM201VSN221MQ20S
	270	22×25	0.15	1.10	EKMM201VSN271MP25S
	270	30×20	0.15	1.05	EKMM201VSN271MR20S
	330	22×30	0.15	1.25	EKMM201VSN331MP30S
	330	25.4×25	0.15	1.25	EKMM201VSN331MQ25S
	330	30×20	0.15	1.10	EKMM201VSN331MR20S
	390	22×30	0.15	1.35	EKMM201VSN391MP30S
	390	25.4×25	0.15	1.35	EKMM201VSN391MQ25S
	390	35×20	0.15	1.30	EKMM201VSN391MA20S
	470	22×35	0.15	1.50	EKMM201VSN471MP35S
	470	25.4×30	0.15	1.50	EKMM201VSN471MQ30S
	470	30×25	0.15	1.50	EKMM201VSN471MR25S
	470	35×20	0.15	1.41	EKMM201VSN471MA20S
	560	22×40	0.15	1.67	EKMM201VSN561MP40S
	560	25.4×30	0.15	1.67	EKMM201VSN561MQ30S
	560	30×25	0.15	1.67	EKMM201VSN561MR25S
	680	22×45	0.15	1.78	EKMM201VSN681MP45S
	680	25.4×35	0.15	1.78	EKMM201VSN681MQ35S
	680	30×30	0.15	1.78	EKMM201VSN681MR30S
	680	35×25	0.15	1.78	EKMM201VSN681MA25S
	820	25.4×45	0.15	2.04	EKMM201VSN821MQ45S
	820	30×30	0.15	2.04	EKMM201VSN821MR30S
	820	35×25	0.15	2.04	EKMM201VSN821MA25S
	1,000	25.4×50	0.15	2.30	EKMM201VSN102MQ50S
	1,000	30×35	0.15	2.30	EKMM201VSN102MR35S
	1,000	35×30	0.15	2.30	EKMM201VSN102MA30S
	1,200	25.4×60	0.15	2.66	EKMM201VSN122MQ60S
	1,200	30×40	0.15	2.65	EKMM201VSN122MR40S
	1,200	35×35	0.15	2.65	EKMM201VSN122MA35S
	1,500	30×50	0.15	3.08	EKMM201VSN152MR50S
	1,500	35×40	0.15	3.08	EKMM201VSN152MA40S
	1,800	30×60	0.15	3.49	EKMM201VSN182MR60S
	1,800	35×45	0.15	3.48	EKMM201VSN182MA45S
	2,200	35×50	0.15	3.78	EKMM201VSN222MA50S
220	150	22×20	0.15	0.67	EKMM221VSN151MP20S
	180	25.4×20	0.15	0.76	EKMM221VSN181MQ20S
	220	22×25	0.15	1.00	EKMM221VSN221MP25S
	220	25.4×20	0.15	0.84	EKMM221VSN221MQ20S
	270	22×30	0.15	1.15	EKMM221VSN271MP30S
	270	25.4×25	0.15	1.08	EKMM221VSN271MQ25S
	270	30×20	0.15	0.98	EKMM221VSN271MR20S
	330	22×35	0.15	1.25	EKMM221VSN331MP35S
	330	25.4×25	0.15	1.25	EKMM221VSN331MQ25S
	330	35×20	0.15	1.13	EKMM221VSN331MA20S
	390	22×35	0.15	1.40	EKMM221VSN391MP35S
	390	25.4×30	0.15	1.40	EKMM221VSN391MQ30S
	390	30×25	0.15	1.36	EKMM221VSN391MR25S
	390	35×20	0.15	1.23	EKMM221VSN391MA20S
	470	22×40	0.15	1.51	EKMM221VSN471MP40S
	470	25.4×35	0.15	1.54	EKMM221VSN471MQ35S
	470	30×25	0.15	1.50	EKMM221VSN471MR25S
	560	22×45	0.15	1.70	EKMM221VSN561MP45S
	560	25.4×40	0.15	1.72	EKMM221VSN561MQ40S
	560	30×30	0.15	1.70	EKMM221VSN561MR30S
	560	35×25	0.15	1.71	EKMM221VSN561MA25S
	680	25.4×45	0.15	1.94	EKMM221VSN681MQ45S

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KMM Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
220	680	30 × 35	0.15	1.93	EKMM221VSN681MR35S
	680	35 × 25	0.15	1.89	EKMM221VSN681MA25S
	820	25.4 × 50	0.15	2.18	EKMM221VSN821MQ50S
	820	30 × 40	0.15	2.19	EKMM221VSN821MR40S
	820	35 × 30	0.15	2.16	EKMM221VSN821MA30S
	1,000	25.4 × 60	0.15	2.54	EKMM221VSN102MQ60S
	1,000	30 × 45	0.15	2.50	EKMM221VSN102MR45S
	1,000	35 × 35	0.15	2.44	EKMM221VSN102MA35S
	1,200	30 × 50	0.15	2.81	EKMM221VSN122MR50S
	1,200	35 × 40	0.15	2.79	EKMM221VSN122MA40S
	1,500	30 × 60	0.15	3.30	EKMM221VSN152MR60S
	1,500	35 × 45	0.15	3.22	EKMM221VSN152MA45S
	1,800	35 × 50	0.15	3.63	EKMM221VSN182MA50S
	2,200	35 × 60	0.15	4.23	EKMM221VSN222MA60S
250	120	22 × 20	0.15	0.60	EKMM251VSN121MP20S
	150	25.4 × 20	0.15	0.74	EKMM251VSN151MQ20S
	180	22 × 25	0.15	0.78	EKMM251VSN181MP25S
	180	25.4 × 20	0.15	0.75	EKMM251VSN181MQ20S
	220	22 × 25	0.15	1.00	EKMM251VSN221MP25S
	220	25.4 × 25	0.15	0.95	EKMM251VSN221MQ25S
	220	30 × 20	0.15	0.95	EKMM251VSN221MR20S
	270	22 × 30	0.15	1.18	EKMM251VSN271MP30S
	270	25.4 × 25	0.15	1.18	EKMM251VSN271MQ25S
	270	30 × 20	0.15	1.00	EKMM251VSN271MR20S
	330	22 × 35	0.15	1.30	EKMM251VSN331MP35S
	330	25.4 × 30	0.15	1.30	EKMM251VSN331MQ30S
	330	30 × 25	0.15	1.30	EKMM251VSN331MR25S
	330	35 × 20	0.15	1.16	EKMM251VSN331MA20S
	390	22 × 40	0.15	1.49	EKMM251VSN391MP40S
	390	25.4 × 35	0.15	1.49	EKMM251VSN391MQ35S
	390	30 × 25	0.15	1.49	EKMM251VSN391MR25S
	470	22 × 45	0.15	1.65	EKMM251VSN471MP45S
	470	25.4 × 35	0.15	1.65	EKMM251VSN471MQ35S
	470	30 × 30	0.15	1.65	EKMM251VSN471MR30S
	470	35 × 25	0.15	1.65	EKMM251VSN471MA25S
	560	22 × 50	0.15	1.67	EKMM251VSN561MP50S
	560	25.4 × 40	0.15	1.80	EKMM251VSN561MQ40S
	560	30 × 30	0.15	1.80	EKMM251VSN561MR30S
	560	35 × 25	0.15	1.80	EKMM251VSN561MA25S
	680	25.4 × 50	0.15	2.00	EKMM251VSN681MQ50S
	680	30 × 35	0.15	2.00	EKMM251VSN681MR35S
	680	35 × 30	0.15	2.00	EKMM251VSN681MA30S
	820	25.4 × 60	0.15	2.20	EKMM251VSN821MQ60S
	820	30 × 40	0.15	2.30	EKMM251VSN821MR40S
	820	35 × 35	0.15	2.30	EKMM251VSN821MA35S
	1,000	30 × 50	0.15	2.47	EKMM251VSN102MR50S
	1,000	35 × 40	0.15	2.47	EKMM251VSN102MA40S
	1,200	30 × 60	0.15	2.85	EKMM251VSN122MR60S
	1,200	35 × 45	0.15	2.60	EKMM251VSN122MA45S
	1,500	35 × 50	0.15	3.00	EKMM251VSN152MA50S
	1,800	35 × 60	0.15	3.42	EKMM251VSN182MA60S
315	68	22 × 20	0.15	0.45	EKMM3B1VSN680MP20S
	82	22 × 20	0.15	0.47	EKMM3B1VSN820MP20S
	100	22 × 25	0.15	0.61	EKMM3B1VSN101MP25S
	100	25.4 × 20	0.15	0.56	EKMM3B1VSN101MQ20S
	120	22 × 25	0.15	0.75	EKMM3B1VSN121MP25S
	120	25.4 × 20	0.15	0.62	EKMM3B1VSN121MQ20S
	120	30 × 20	0.15	0.65	EKMM3B1VSN121MR20S
	150	22 × 30	0.15	0.82	EKMM3B1VSN151MP30S
	150	25.4 × 25	0.15	0.82	EKMM3B1VSN151MQ25S
	150	30 × 20	0.15	0.70	EKMM3B1VSN151MR20S
	150	35 × 20	0.15	0.76	EKMM3B1VSN151MA20S
	180	22 × 35	0.15	0.92	EKMM3B1VSN181MP35S
	180	25.4 × 25	0.15	0.92	EKMM3B1VSN181MQ25S
	180	30 × 25	0.15	0.90	EKMM3B1VSN181MR25S
	180	35 × 20	0.15	0.85	EKMM3B1VSN181MA20S
	220	22 × 40	0.15	1.04	EKMM3B1VSN221MP40S

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
315	220	25.4 × 30	0.15	1.04	EKMM3B1VSN221MQ30S
	220	30 × 25	0.15	1.04	EKMM3B1VSN221MR25S
	220	35 × 20	0.15	0.90	EKMM3B1VSN221MA20S
	270	22 × 45	0.15	1.16	EKMM3B1VSN271MP45S
	270	25.4 × 35	0.15	1.16	EKMM3B1VSN271MQ35S
	270	30 × 25	0.15	1.16	EKMM3B1VSN271MR25S
	270	35 × 25	0.15	1.15	EKMM3B1VSN271MA25S
	330	22 × 50	0.15	1.33	EKMM3B1VSN331MP50S
	330	25.4 × 40	0.15	1.33	EKMM3B1VSN331MQ40S
	330	30 × 30	0.15	1.33	EKMM3B1VSN331MR30S
	330	35 × 25	0.15	1.33	EKMM3B1VSN331MA25S
	390	25.4 × 45	0.15	1.47	EKMM3B1VSN391MQ45S
	390	30 × 35	0.15	1.47	EKMM3B1VSN391MR35S
	390	35 × 30	0.15	1.47	EKMM3B1VSN391MA30S
	470	25.4 × 50	0.15	1.70	EKMM3B1VSN471MQ50S
	470	30 × 40	0.15	1.70	EKMM3B1VSN471MR40S
	470	35 × 30	0.15	1.70	EKMM3B1VSN471MA30S
	560	30 × 45	0.15	2.05	EKMM3B1VSN561MR45S
	560	35 × 35	0.15	2.05	EKMM3B1VSN561MA35S
	680	30 × 50	0.15	2.17	EKMM3B1VSN681MR50S
	680	35 × 40	0.15	2.17	EKMM3B1VSN681MA40S
	820	35 × 45	0.15	2.20	EKMM3B1VSN821MA45S
	1,000	35 × 60	0.15	2.55	EKMM3B1VSN102MA60S
350	56	22 × 20	0.15	0.41	EKMM351VSN560MP20S
	68	25.4 × 20	0.15	0.46	EKMM351VSN680MQ20S
	82	22 × 25	0.15	0.55	EKMM351VSN820MP25S
	82	25.4 × 20	0.15	0.51	EKMM351VSN820MQ20S
	100	22 × 25	0.15	0.69	EKMM351VSN101MP25S
	100	30 × 20	0.15	0.60	EKMM351VSN101MR20S
	120	22 × 30	0.15	0.75	EKMM351VSN121MP30S
	120	25.4 × 25	0.15	0.75	EKMM351VSN121MQ25S
	120	30 × 20	0.15	0.65	EKMM351VSN121MR20S
	150	22 × 35	0.15	0.82	EKMM351VSN151MP35S
	150	25.4 × 30	0.15	0.83	EKMM351VSN151MQ30S
	150	30 × 25	0.15	0.82	EKMM351VSN151MR25S
	150	35 × 20	0.15	0.76	EKMM351VSN151MA20S
	180	22 × 40	0.15	0.92	EKMM351VSN181MP40S
	180	25.4 × 30	0.15	0.92	EKMM351VSN181MQ30S
	180	30 × 25	0.15	0.90	EKMM351VSN181MR25S
	220	22 × 45	0.15	1.05	EKMM351VSN221MP45S
	220	25.4 × 35	0.15	1.04	EKMM351VSN221MQ35S
	220	30 × 30	0.15	1.02	EKMM351VSN221MR30S
	220	35 × 25	0.15	1.04	EKMM351VSN221MA25S
	270	22 × 50	0.15	1.16	EKMM351VSN271MP50S
	270	25.4 × 40	0.15	1.18	EKMM351VSN271MQ40S
	270	30 × 30	0.15	1.17	EKMM351VSN271MR30S
	270	35 × 25	0.15	1.20	EKMM351VSN271MA25S
	330	25.4 × 45	0.15	1.29	EKMM351VSN331MQ45S
	330	30 × 35	0.15	1.34	EKMM351VSN331MR35S
	330	35 × 30	0.15	1.22	EKMM351VSN331MA30S
	390	25.4 × 50	0.15	1.51	EKMM351VSN391MQ50S
	390	30 × 40	0.15	1.51	EKMM351VSN391MR40S
	390	35 × 35	0.15	1.47	EKMM351VSN391MA35S
	470	25.4 × 60	0.15	1.66	EKMM351VSN471MQ60S
	470	30 × 45	0.15	1.65	EKMM351VSN471MR45S
	470	35 × 35	0.15	1.69	EKMM351VSN471MA35S
	560	30 × 50	0.15	1.85	EKMM351VSN561MR50S
	560	35 × 40	0.15	1.90	EKMM351VSN561MA40S
	680	30 × 60	0.15	2.15	EKMM351VSN681MR60S
	680	35 × 50	0.15	1.99	EKMM351VSN681MA50S
	820	35 × 60	0.15	2.31	EKMM351VSN821MA60S
400	47	22 × 20	0.15	0.37	EKMM401VSN470MP20S
	56	25.4 × 20	0.15	0.42	EKMM401VSN560MQ20S
	68	22 × 25	0.15	0.50	EKMM401VSN680MP25S
	68	25.4 × 20	0.15	0.46	EKMM401VSN680MQ20S
	82	22 × 25	0.15	0.64	EKMM401VSN820MP25S
	82	30 × 20	0.15	0.55	EKMM401VSN820MR20S

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KMM Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
400	100	22 × 30	0.15	0.70	EKMM401VSN101MP30S
	100	25.4 × 25	0.15	0.70	EKMM401VSN101MQ25S
	100	30 × 20	0.15	0.60	EKMM401VSN101MR20S
	120	22 × 35	0.15	0.75	EKMM401VSN121MP35S
	120	25.4 × 25	0.15	0.75	EKMM401VSN121MQ25S
	120	30 × 25	0.15	0.73	EKMM401VSN121MR25S
	120	35 × 20	0.15	0.75	EKMM401VSN121MA20S
	150	22 × 40	0.15	0.88	EKMM401VSN151MP40S
	150	25.4 × 30	0.15	0.88	EKMM401VSN151MQ30S
	150	30 × 25	0.15	0.88	EKMM401VSN151MR25S
	150	35 × 20	0.15	0.80	EKMM401VSN151MA20S
	180	22 × 45	0.15	0.98	EKMM401VSN181MP45S
	180	25.4 × 35	0.15	0.98	EKMM401VSN181MQ35S
	180	30 × 30	0.15	0.98	EKMM401VSN181MR30S
	180	35 × 25	0.15	0.98	EKMM401VSN181MA25S
	220	22 × 50	0.15	1.10	EKMM401VSN221MP50S
	220	25.4 × 40	0.15	1.10	EKMM401VSN221MQ40S
	220	30 × 30	0.15	1.10	EKMM401VSN221MR30S
	220	35 × 25	0.15	1.10	EKMM401VSN221MA25S
	270	25.4 × 45	0.15	1.22	EKMM401VSN271MQ45S
	270	30 × 35	0.15	1.22	EKMM401VSN271MR35S
	270	35 × 30	0.15	1.22	EKMM401VSN271MA30S
	330	25.4 × 50	0.15	1.44	EKMM401VSN331MQ50S
	330	30 × 40	0.15	1.44	EKMM401VSN331MR40S
	330	35 × 30	0.15	1.44	EKMM401VSN331MA30S
	390	25.4 × 60	0.15	1.51	EKMM401VSN391MQ60S
	390	30 × 45	0.15	1.60	EKMM401VSN391MR45S
	390	35 × 35	0.15	1.60	EKMM401VSN391MA35S
	470	30 × 50	0.15	1.90	EKMM401VSN471MR50S
	470	35 × 40	0.15	1.90	EKMM401VSN471MA40S
	560	30 × 60	0.15	2.10	EKMM401VSN561MR60S
	560	35 × 45	0.15	2.12	EKMM401VSN561MA45S
	680	35 × 60	0.15	2.27	EKMM401VSN681MA60S
420	47	22 × 20	0.20	0.37	EKMM421VSN470MP20S
	56	25.4 × 20	0.20	0.42	EKMM421VSN560MQ20S
	68	22 × 25	0.20	0.50	EKMM421VSN680MP25S
	68	25.4 × 20	0.20	0.46	EKMM421VSN680MQ20S
	82	22 × 25	0.20	0.64	EKMM421VSN820MP25S
	82	25.4 × 25	0.20	0.58	EKMM421VSN820MQ25S
	82	30 × 20	0.20	0.53	EKMM421VSN820MR20S
	100	22 × 30	0.20	0.70	EKMM421VSN101MP30S
	100	25.4 × 25	0.20	0.70	EKMM421VSN101MQ25S
	100	30 × 20	0.20	0.59	EKMM421VSN101MR20S
	120	22 × 35	0.20	0.75	EKMM421VSN121MP35S
	120	25.4 × 30	0.20	0.75	EKMM421VSN121MQ30S
	120	30 × 25	0.20	0.73	EKMM421VSN121MR25S
	120	35 × 20	0.20	0.67	EKMM421VSN121MA20S
	150	22 × 40	0.20	0.88	EKMM421VSN151MP40S
	150	25.4 × 35	0.20	0.88	EKMM421VSN151MQ35S
	150	30 × 25	0.20	0.88	EKMM421VSN151MR25S
	180	22 × 45	0.20	0.95	EKMM421VSN181MP45S

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
420	180	25.4 × 35	0.20	0.95	EKMM421VSN181MQ35S
	180	30 × 30	0.20	0.95	EKMM421VSN181MR30S
	180	35 × 25	0.20	0.94	EKMM421VSN181MA25S
	220	22 × 50	0.20	1.10	EKMM421VSN221MP50S
	220	25.4 × 45	0.20	1.10	EKMM421VSN221MQ45S
	220	30 × 35	0.20	1.10	EKMM421VSN221MR35S
	220	35 × 25	0.20	1.10	EKMM421VSN221MA25S
	270	25.4 × 50	0.20	1.22	EKMM421VSN271MQ50S
	270	30 × 40	0.20	1.22	EKMM421VSN271MR40S
	270	35 × 30	0.20	1.22	EKMM421VSN271MA30S
	330	25.4 × 60	0.20	1.41	EKMM421VSN331MQ60S
	330	30 × 45	0.20	1.45	EKMM421VSN331MR45S
	330	35 × 35	0.20	1.45	EKMM421VSN331MA35S
	390	30 × 50	0.20	1.55	EKMM421VSN391MR50S
	390	35 × 40	0.20	1.55	EKMM421VSN391MA40S
	470	30 × 60	0.20	1.79	EKMM421VSN471MR60S
	470	35 × 45	0.20	1.90	EKMM421VSN471MA45S
	560	35 × 50	0.20	2.15	EKMM421VSN561MA50S
	680	35 × 60	0.20	2.27	EKMM421VSN681MA60S
450	56	22 × 25	0.20	0.40	EKMM451VSN560MP25S
	68	22 × 30	0.20	0.53	EKMM451VSN680MP30S
	68	25.4 × 25	0.20	0.50	EKMM451VSN680MQ25S
	82	22 × 30	0.20	0.64	EKMM451VSN820MP30S
	82	25.4 × 25	0.20	0.64	EKMM451VSN820MQ25S
	100	22 × 35	0.20	0.69	EKMM451VSN101MP35S
	100	25.4 × 30	0.20	0.69	EKMM451VSN101MQ30S
	100	30 × 25	0.20	0.64	EKMM451VSN101MR25S
	120	22 × 40	0.20	0.80	EKMM451VSN121MP40S
	120	25.4 × 30	0.20	0.80	EKMM451VSN121MQ30S
	120	30 × 25	0.20	0.80	EKMM451VSN121MR25S
	120	35 × 25	0.20	0.73	EKMM451VSN121MA25S
	150	22 × 45	0.20	0.88	EKMM451VSN151MP45S
	150	25.4 × 35	0.20	0.88	EKMM451VSN151MQ35S
	150	30 × 30	0.20	0.88	EKMM451VSN151MR30S
	150	35 × 25	0.20	0.75	EKMM451VSN151MA25S
	180	22 × 50	0.20	1.00	EKMM451VSN181MP50S
	180	25.4 × 40	0.20	1.00	EKMM451VSN181MQ40S
	180	30 × 30	0.20	1.00	EKMM451VSN181MR30S
	220	25.4 × 45	0.20	1.12	EKMM451VSN221MQ45S
	220	30 × 35	0.20	1.12	EKMM451VSN221MR35S
	220	35 × 30	0.20	1.12	EKMM451VSN221MA30S
	270	25.4 × 60	0.20	1.18	EKMM451VSN271MQ60S
	270	30 × 40	0.20	1.28	EKMM451VSN271MR40S
	270	35 × 35	0.20	1.28	EKMM451VSN271MA35S
	330	30 × 50	0.20	1.45	EKMM451VSN331MR50S
	330	35 × 40	0.20	1.45	EKMM451VSN331MA40S
	390	30 × 60	0.20	1.51	EKMM451VSN391MR60S
	390	35 × 40	0.20	1.55	EKMM451VSN391MA40S
	470	35 × 50	0.20	1.85	EKMM451VSN471MA50S
	560	35 × 60	0.20	1.91	EKMM451VSN561MA60S

◆RATED RIPPLE CURRENT MULTIPLIERS

◎Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
160 to 250V_{dc}	0.81	1.00	1.17	1.32	1.45	1.50
315 to 450V_{dc}	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.

Product specifications in this catalog are subject to change without notice.Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

■ 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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The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products

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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

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