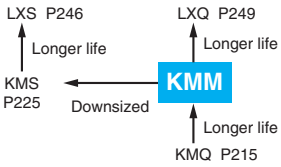
KMM Series

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

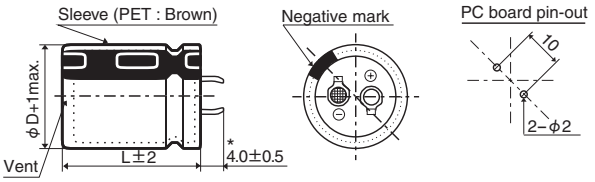


◆SPECIFICATIONS

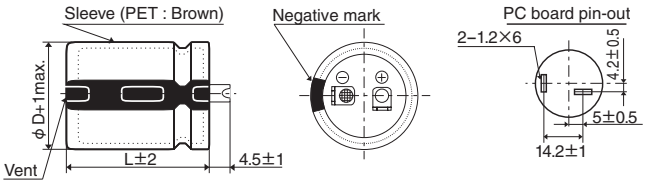
Items	Characteristics			
Category Temperature Range	−25 to +105℃			
Rated Voltage Range	160 to 450Vdc			
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)			(at 20℃ after 5 minutes)
Dissipation Factor (tanδ)	Rated voltage (Vdc)	160 to 400V	420 & 450V	
	tanδ (Max.)	0.15	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	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 (2,000 hours for φ20×20L products) at 105℃.			
	Capacitance change	≦±20% of the initial value		
	D.F. (tanδ)	≦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. (tanδ)	≦150% of the initial specified value		
	Leakage current	≦The initial specified value		

◆DIMENSIONS [mm]

●Terminal Code : VS (φ20 to φ35) : Standard



●Terminal Code : LI (φ35)



*φD=35mm : 3.5±0.5mm

The standard design has no plastic disc.

◆PART NUMBERING SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
E	K	M	M				V	S	N				M				S

- 18 : Supplement code
- 15 16 17 : Size code
- 14 : Capacitance tolerance code
- 11 12 13 : Capacitance code (ex. 120μF:121, 1,000μF:102)
- 10 : Dummy terminal code
- 8 9 : Terminal code (VS, LI)
- 5 6 7 : Voltage code (ex. 160V:161, 250V:251, 315V:3B1)
- 4 : Series code
- 1 : Category

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

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.

KMM Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/105℃,120Hz)	Part No.
160	180	20×20	0.15	0.68	EKMM161VSN181MN20S
	220	20×25	0.15	0.85	EKMM161VSN221MN25S
	220	22×20	0.15	0.81	EKMM161VSN221MP20S
	270	20×25	0.15	1.10	EKMM161VSN271MN25S
	270	25.4×20	0.15	0.98	EKMM161VSN271MQ20S
	330	20×30	0.15	1.20	EKMM161VSN331MN30S
	330	22×25	0.15	1.20	EKMM161VSN331MP25S
	330	25.4×20	0.15	1.02	EKMM161VSN331MQ20S
	390	20×30	0.15	1.30	EKMM161VSN391MN30S
	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	20×35	0.15	1.34	EKMM161VSN471MN35S
	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	20×40	0.15	1.50	EKMM161VSN561MN40S
	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	20×45	0.15	1.70	EKMM161VSN681MN45S
	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	150	20×20	0.15	0.62	EKMM181VSN151MN20S
	180	20×25	0.15	0.77	EKMM181VSN181MN25S
	180	22×20	0.15	0.80	EKMM181VSN181MP20S
	220	20×25	0.15	1.00	EKMM181VSN221MN25S
	220	25.4×20	0.15	0.90	EKMM181VSN221MQ20S
	270	20×30	0.15	1.10	EKMM181VSN271MN30S
	270	22×25	0.15	1.00	EKMM181VSN271MP25S
	270	25.4×20	0.15	0.95	EKMM181VSN271MQ20S
	330	20×30	0.15	1.20	EKMM181VSN331MN30S
	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	20×35	0.15	1.30	EKMM181VSN391MN35S
	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	20×40	0.15	1.40	EKMM181VSN471MN40S
	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

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/105℃,120Hz)	Part No.
180	560	20×45	0.15	1.55	EKMM181VSN561MN45S
	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	20×50	0.15	1.75	EKMM181VSN681MN50S
	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
	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	120	20×20	0.15	0.56	EKMM201VSN121MN20S
	150	20×25	0.15	0.71	EKMM201VSN151MN25S
	150	22×20	0.15	0.73	EKMM201VSN151MP20S
	180	20×25	0.15	0.77	EKMM201VSN181MN25S
	180	22×20	0.15	0.80	EKMM201VSN181MP20S
	220	20×25	0.15	1.00	EKMM201VSN221MN25S
	220	25.4×20	0.15	0.85	EKMM201VSN221MQ20S
	270	20×30	0.15	1.10	EKMM201VSN271MN30S
	270	22×25	0.15	1.10	EKMM201VSN271MP25S
	270	30×20	0.15	1.05	EKMM201VSN271MR20S
	330	20×35	0.15	1.20	EKMM201VSN331MN35S
	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	20×40	0.15	1.31	EKMM201VSN391MN40S
	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	20×45	0.15	1.45	EKMM201VSN471MN45S
	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	20×50	0.15	1.58	EKMM201VSN561MN50S
	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

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KMM Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
200	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	120	20×20	0.15	0.56	EKMM221VSN121MN20S
	150	20×25	0.15	0.73	EKMM221VSN151MN25S
	150	22×20	0.15	0.67	EKMM221VSN151MP20S
	180	20×25	0.15	0.90	EKMM221VSN181MN25S
	180	25.4×20	0.15	0.76	EKMM221VSN181MQ20S
	220	20×30	0.15	1.00	EKMM221VSN221MN30S
	220	22×25	0.15	1.00	EKMM221VSN221MP25S
	220	25.4×20	0.15	0.84	EKMM221VSN221MQ20S
	270	20×35	0.15	1.15	EKMM221VSN271MN35S
	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	20×40	0.15	1.25	EKMM221VSN331MN40S
	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	20×45	0.15	1.40	EKMM221VSN391MN45S
	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	20×50	0.15	1.51	EKMM221VSN471MN50S
	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
	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	100	20×20	0.15	0.51	EKMM251VSN101MN20S
	120	20×25	0.15	0.58	EKMM251VSN121MN25S
	120	22×20	0.15	0.60	EKMM251VSN121MP20S
	150	20×25	0.15	0.79	EKMM251VSN151MN25S
	150	25.4×20	0.15	0.74	EKMM251VSN151MQ20S
	180	20×30	0.15	0.90	EKMM251VSN181MN30S
	180	22×25	0.15	0.78	EKMM251VSN181MP25S
	180	25.4×20	0.15	0.75	EKMM251VSN181MQ20S
	220	20×30	0.15	1.00	EKMM251VSN221MN30S
	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	20×35	0.15	1.10	EKMM251VSN271MN35S
	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	20×40	0.15	1.20	EKMM251VSN331MN40S
	330	22×35	0.15	1.30	EKMM251VSN331MP35S
	330	25.4×30	0.15	1.30	EKMM251VSN331MQ30S
250	330	30×25	0.15	1.30	EKMM251VSN331MR25S
	330	35×20	0.15	1.16	EKMM251VSN331MA20S
	390	20×50	0.15	1.45	EKMM251VSN391MN50S
	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	56	20×20	0.15	0.38	EKMM3B1VSN560MN20S
	68	20×25	0.15	0.47	EKMM3B1VSN680MN25S
	68	22×20	0.15	0.45	EKMM3B1VSN680MP20S
	82	20×25	0.15	0.64	EKMM3B1VSN820MN25S
	82	22×20	0.15	0.47	EKMM3B1VSN820MP20S
	100	20×30	0.15	0.69	EKMM3B1VSN101MN30S
	100	22×25	0.15	0.61	EKMM3B1VSN101MP25S
	100	25.4×20	0.15	0.56	EKMM3B1VSN101MQ20S
	120	20×30	0.15	0.75	EKMM3B1VSN121MN30S
	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	20×35	0.15	0.82	EKMM3B1VSN151MN35S
	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	20×40	0.15	0.90	EKMM3B1VSN181MN40S
	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	20×50	0.15	1.00	EKMM3B1VSN221MN50S
	220	22×40	0.15	1.04	EKMM3B1VSN221MP40S
	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

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KMM Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
315	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	47	20×20	0.15	0.35	EKMM351VSN470MN20S
	56	20×25	0.15	0.43	EKMM351VSN560MN25S
	56	22×20	0.15	0.41	EKMM351VSN560MP20S
	68	20×25	0.15	0.47	EKMM351VSN680MN25S
	68	25.4×20	0.15	0.46	EKMM351VSN680MQ20S
	82	20×30	0.15	0.54	EKMM351VSN820MN30S
	82	22×25	0.15	0.55	EKMM351VSN820MP25S
	82	25.4×20	0.15	0.51	EKMM351VSN820MQ20S
	100	20×30	0.15	0.60	EKMM351VSN101MN30S
	100	22×25	0.15	0.69	EKMM351VSN101MP25S
	100	30×20	0.15	0.60	EKMM351VSN101MR20S
	120	20×35	0.15	0.68	EKMM351VSN121MN35S
	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	20×40	0.15	0.78	EKMM351VSN151MN40S
	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	20×45	0.15	0.87	EKMM351VSN181MN45S
	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	20×50	0.15	1.00	EKMM351VSN221MN50S
	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	39	20×20	0.15	0.32	EKMM401VSN390MN20S
	47	20×25	0.15	0.39	EKMM401VSN470MN25S
	47	22×20	0.15	0.37	EKMM401VSN470MP20S
	56	20×25	0.15	0.51	EKMM401VSN560MN25S
	56	25.4×20	0.15	0.42	EKMM401VSN560MQ20S
	68	20×30	0.15	0.56	EKMM401VSN680MN30S
	68	22×25	0.15	0.50	EKMM401VSN680MP25S
	68	25.4×20	0.15	0.46	EKMM401VSN680MQ20S
	82	20×30	0.15	0.64	EKMM401VSN820MN30S
	82	22×25	0.15	0.64	EKMM401VSN820MP25S
	82	30×20	0.15	0.55	EKMM401VSN820MR20S
	100	20×35	0.15	0.70	EKMM401VSN101MN35S
	100	22×30	0.15	0.70	EKMM401VSN101MP30S
	100	25.4×25	0.15	0.70	EKMM401VSN101MQ25S

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
400	100	30×20	0.15	0.60	EKMM401VSN101MR20S
	120	20×40	0.15	0.75	EKMM401VSN121MN40S
	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	20×45	0.15	0.83	EKMM401VSN151MN45S
	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	39	20×20	0.20	0.32	EKMM421VSN390MN20S
	47	20×25	0.20	0.39	EKMM421VSN470MN25S
	47	22×20	0.20	0.37	EKMM421VSN470MP20S
	56	20×25	0.20	0.51	EKMM421VSN560MN25S
	56	25.4×20	0.20	0.42	EKMM421VSN560MQ20S
	68	20×30	0.20	0.56	EKMM421VSN680MN30S
	68	22×25	0.20	0.50	EKMM421VSN680MP25S
	68	25.4×20	0.20	0.46	EKMM421VSN680MQ20S
	82	20×35	0.20	0.64	EKMM421VSN820MN35S
	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	20×35	0.20	0.70	EKMM421VSN101MN35S
	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	20×40	0.20	0.75	EKMM421VSN121MN40S
	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	20×50	0.20	0.88	EKMM421VSN151MN50S
	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
	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

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KMM Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
420	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	39	20×25	0.20	0.34	EKMM451VSN390MN25S
	47	20×25	0.20	0.39	EKMM451VSN470MN25S
	56	20×30	0.20	0.51	EKMM451VSN560MN30S
	56	22×25	0.20	0.40	EKMM451VSN560MP25S
	68	20×35	0.20	0.56	EKMM451VSN680MN35S
	68	22×30	0.20	0.53	EKMM451VSN680MP30S
	68	25.4×25	0.20	0.50	EKMM451VSN680MQ25S
	82	20×35	0.20	0.64	EKMM451VSN820MN35S
	82	22×30	0.20	0.64	EKMM451VSN820MP30S
	82	25.4×25	0.20	0.64	EKMM451VSN820MQ25S
	100	20×45	0.20	0.69	EKMM451VSN101MN45S
	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

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
450	120	20×50	0.20	0.75	EKMM451VSN121MN50S
	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 250Vdc	0.81	1.00	1.17	1.32	1.45	1.50
315 to 450Vdc	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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