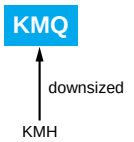
KMQ Series

- Downsized from current downsized snap-ins KMH series
- Endurance with ripple current : 105℃ 2000 hours
- Non solvent-proof type
- Pb-free design



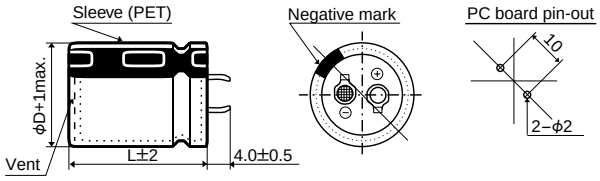


◆SPECIFICATIONS

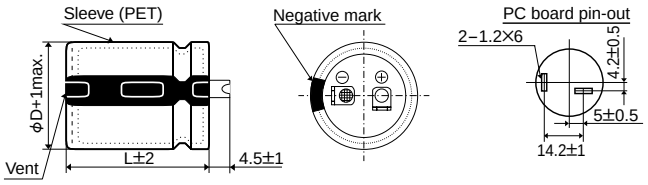
Items	Characteristics				
Category Temperature Range	−25 to +105℃				
Rated Voltage Range	160 to 450Vdc				
Capacitance Tolerance	±20% (M)				(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)				(at 20℃ after 5 minutes)
Dissipation Factor (tanδ)	Rated voltage (Vdc)	160 to 250V	315 to 400V	420 & 450V	
	tanδ (Max.)	0.15	0.15	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	160 to 250V	315 to 400V	420 & 450V	
	Z(−25℃)/Z(+20℃)	4	8	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 for 2000 hours 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 1000 hours at 105℃ without voltage applied.				
	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 (φ22 to φ35) : Standard

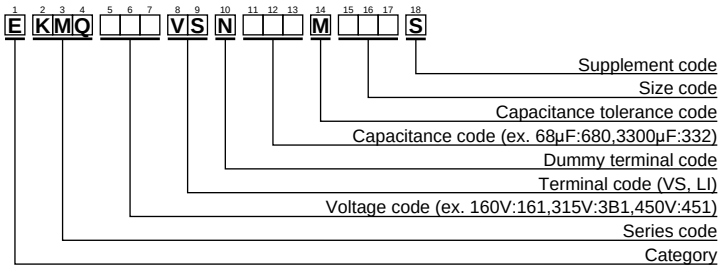


●Terminal Code : LI (φ35)



No plastic disk is the standard design.

◆PART NUMBERING SYSTEM



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

KMQ Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
160	470	22×25	0.15	1.40	EKMQ161VSN471MP25S
	560	22×30	0.15	1.50	EKMQ161VSN561MP30S
	680	22×30	0.15	1.70	EKMQ161VSN681MP30S
	680	25.4×25	0.15	1.70	EKMQ161VSN681MQ25S
	820	22×35	0.15	2.00	EKMQ161VSN821MP35S
	820	25.4×30	0.15	2.00	EKMQ161VSN821MQ30S
	820	30×25	0.15	2.00	EKMQ161VSN821MR25S
	1000	22×40	0.15	2.20	EKMQ161VSN102MP40S
	1000	25.4×35	0.15	2.20	EKMQ161VSN102MQ35S
	1000	30×25	0.15	2.20	EKMQ161VSN102MR25S
	1200	25.4×40	0.15	2.30	EKMQ161VSN122MQ40S
	1200	30×30	0.15	2.30	EKMQ161VSN122MR30S
	1200	35×25	0.15	2.30	EKMQ161VSN122MA25S
	1500	25.4×45	0.15	2.50	EKMQ161VSN152MQ45S
	1500	30×35	0.15	2.50	EKMQ161VSN152MR35S
	1500	35×30	0.15	2.50	EKMQ161VSN152MA30S
	1800	25.4×50	0.15	2.70	EKMQ161VSN182MQ50S
	1800	30×40	0.15	2.70	EKMQ161VSN182MR40S
	1800	35×30	0.15	2.70	EKMQ161VSN182MA30S
	2200	30×45	0.15	2.90	EKMQ161VSN222MR45S
	2200	35×35	0.15	2.90	EKMQ161VSN222MA35S
	2700	30×50	0.15	3.10	EKMQ161VSN272MR50S
	2700	35×40	0.15	3.10	EKMQ161VSN272MA40S
	3300	35×50	0.15	3.30	EKMQ161VSN332MA50S
180	390	22×25	0.15	1.30	EKMQ181VSN391MP25S
	470	22×30	0.15	1.40	EKMQ181VSN471MP30S
	560	22×30	0.15	1.50	EKMQ181VSN561MP30S
	560	25.4×25	0.15	1.50	EKMQ181VSN561MQ25S
	680	22×35	0.15	1.70	EKMQ181VSN681MP35S
	680	25.4×30	0.15	1.70	EKMQ181VSN681MQ30S
	820	22×40	0.15	2.00	EKMQ181VSN821MP40S
	820	25.4×30	0.15	2.00	EKMQ181VSN821MQ30S
	820	30×25	0.15	2.00	EKMQ181VSN821MR25S
	1000	22×45	0.15	2.20	EKMQ181VSN102MP45S
	1000	25.4×40	0.15	2.20	EKMQ181VSN102MQ40S
	1000	30×30	0.15	2.20	EKMQ181VSN102MR30S
	1000	35×25	0.15	2.20	EKMQ181VSN102MA25S
	1200	25.4×45	0.15	2.30	EKMQ181VSN122MQ45S
	1200	30×35	0.15	2.30	EKMQ181VSN122MR35S
	1200	35×30	0.15	2.30	EKMQ181VSN122MA30S
	1500	25.4×50	0.15	2.50	EKMQ181VSN152MQ50S
	1500	30×40	0.15	2.50	EKMQ181VSN152MR40S
	1500	35×30	0.15	2.50	EKMQ181VSN152MA30S
	1800	30×45	0.15	2.70	EKMQ181VSN182MR45S
	1800	35×35	0.15	2.70	EKMQ181VSN182MA35S
	2200	30×50	0.15	2.90	EKMQ181VSN222MR50S
	2200	35×40	0.15	2.90	EKMQ181VSN222MA40S
	2700	35×50	0.15	3.10	EKMQ181VSN272MA50S
200	390	22×25	0.15	1.31	EKMQ201VSN391MP25S
	470	22×30	0.15	1.45	EKMQ201VSN471MP30S
	560	22×30	0.15	1.67	EKMQ201VSN561MP30S
	560	25.4×25	0.15	1.67	EKMQ201VSN561MQ25S
	680	22×40	0.15	1.75	EKMQ201VSN681MP40S
	680	25.4×30	0.15	1.75	EKMQ201VSN681MQ30S
	820	22×45	0.15	2.04	EKMQ201VSN821MP45S
	820	25.4×35	0.15	2.04	EKMQ201VSN821MQ35S
	820	30×25	0.15	2.04	EKMQ201VSN821MR25S
	1000	22×50	0.15	2.30	EKMQ201VSN102MP50S
	1000	25.4×45	0.15	2.30	EKMQ201VSN102MQ45S
	1000	30×30	0.15	2.30	EKMQ201VSN102MR30S
	1000	35×25	0.15	2.30	EKMQ201VSN102MA25S
	1200	25.4×50	0.15	2.65	EKMQ201VSN122MQ50S
	1200	30×35	0.15	2.65	EKMQ201VSN122MR35S
	1200	35×30	0.15	2.65	EKMQ201VSN122MA30S
	1500	30×40	0.15	2.80	EKMQ201VSN152MR40S
	1500	35×30	0.15	2.80	EKMQ201VSN152MA30S
	1800	30×45	0.15	3.08	EKMQ201VSN182MR45S
200	1800	35×40	0.15	3.08	EKMQ201VSN182MA40S
	2200	35×45	0.15	3.48	EKMQ201VSN222MA45S
250	220	22×25	0.15	1.00	EKMQ251VSN221MP25S
	270	22×25	0.15	1.10	EKMQ251VSN271MP25S
	330	22×30	0.15	1.20	EKMQ251VSN331MP30S
	330	25.4×25	0.15	1.20	EKMQ251VSN331MQ25S
	390	22×35	0.15	1.30	EKMQ251VSN391MP35S
	390	25.4×25	0.15	1.30	EKMQ251VSN391MQ25S
	470	22×40	0.15	1.40	EKMQ251VSN471MP40S
	470	25.4×30	0.15	1.40	EKMQ251VSN471MQ30S
	470	30×25	0.15	1.40	EKMQ251VSN471MR25S
	560	22×45	0.15	1.50	EKMQ251VSN561MP45S
	560	25.4×35	0.15	1.50	EKMQ251VSN561MQ35S
	560	30×25	0.15	1.50	EKMQ251VSN561MR25S
	680	22×50	0.15	1.70	EKMQ251VSN681MP50S
	680	25.4×40	0.15	1.70	EKMQ251VSN681MQ40S
	680	30×30	0.15	1.70	EKMQ251VSN681MR30S
	680	35×25	0.15	1.70	EKMQ251VSN681MA25S
	820	25.4×45	0.15	2.00	EKMQ251VSN821MQ45S
	820	30×35	0.15	2.00	EKMQ251VSN821MR35S
	820	35×30	0.15	2.00	EKMQ251VSN821MA30S
	1000	30×40	0.15	2.20	EKMQ251VSN102MR40S
	1000	35×30	0.15	2.20	EKMQ251VSN102MA30S
	1200	30×45	0.15	2.30	EKMQ251VSN122MR45S
	1200	35×35	0.15	2.30	EKMQ251VSN122MA35S
	1500	35×45	0.15	2.50	EKMQ251VSN152MA45S
	1800	35×50	0.15	2.70	EKMQ251VSN182MA50S
315	150	22×25	0.15	0.82	EKMQ3B1VSN151MP25S
	180	22×30	0.15	0.90	EKMQ3B1VSN181MP30S
	220	22×30	0.15	1.00	EKMQ3B1VSN221MP30S
	220	25.4×25	0.15	1.00	EKMQ3B1VSN221MQ25S
	270	22×35	0.15	1.10	EKMQ3B1VSN271MP35S
	270	25.4×30	0.15	1.10	EKMQ3B1VSN271MQ30S
	330	22×45	0.15	1.20	EKMQ3B1VSN331MP45S
	330	25.4×35	0.15	1.20	EKMQ3B1VSN331MQ35S
	330	30×25	0.15	1.20	EKMQ3B1VSN331MR25S
	390	22×45	0.15	1.30	EKMQ3B1VSN391MP45S
	390	25.4×40	0.15	1.30	EKMQ3B1VSN391MQ40S
	390	30×30	0.15	1.30	EKMQ3B1VSN391MR30S
	390	35×25	0.15	1.30	EKMQ3B1VSN391MA25S
	470	25.4×45	0.15	1.40	EKMQ3B1VSN471MQ45S
	470	30×35	0.15	1.40	EKMQ3B1VSN471MR35S
	470	35×25	0.15	1.40	EKMQ3B1VSN471MA25S
	560	25.4×50	0.15	1.50	EKMQ3B1VSN561MQ50S
	560	30×40	0.15	1.50	EKMQ3B1VSN561MR40S
	560	35×30	0.15	1.50	EKMQ3B1VSN561MA30S
	680	30×45	0.15	1.70	EKMQ3B1VSN681MR45S
	680	35×35	0.15	1.70	EKMQ3B1VSN681MA35S
	820	30×50	0.15	2.00	EKMQ3B1VSN821MR50S
	820	35×40	0.15	2.00	EKMQ3B1VSN821MA40S
	1000	35×45	0.15	2.30	EKMQ3B1VSN102MA45S
350	120	22×25	0.15	0.75	EKMQ351VSN121MP25S
	150	22×30	0.15	0.82	EKMQ351VSN151MP30S
	180	22×30	0.15	0.90	EKMQ351VSN181MP30S
	180	25.4×25	0.15	0.90	EKMQ351VSN181MQ25S
	220	22×35	0.15	1.00	EKMQ351VSN221MP35S
	220	25.4×30	0.15	1.00	EKMQ351VSN221MQ30S
	270	22×40	0.15	1.10	EKMQ351VSN271MP40S
	270	25.4×30	0.15	1.10	EKMQ351VSN271MQ30S
	270	30×25	0.15	1.10	EKMQ351VSN271MR25S
	330	22×45	0.15	1.20	EKMQ351VSN331MP45S
	330	25.4×40	0.15	1.20	EKMQ351VSN331MQ40S
	330	30×30	0.15	1.20	EKMQ351VSN331MR30S
	390	25.4×45	0.15	1.30	EKMQ351VSN391MQ45S
	390	30×35	0.15	1.30	EKMQ351VSN391MR35S
	470	25.4×50	0.15	1.40	EKMQ351VSN471MQ50S
	470	30×35	0.15	1.40	EKMQ351VSN471MR35S

KMQ Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
350	470	35×30	0.15	1.40	EKMQ351VSN471MA30S
	560	30×45	0.15	1.50	EKMQ351VSN561MR45S
	560	35×35	0.15	1.50	EKMQ351VSN561MA35S
	680	30×50	0.15	1.70	EKMQ351VSN681MR50S
	680	35×40	0.15	1.70	EKMQ351VSN681MA40S
	820	35×45	0.15	1.90	EKMQ351VSN821MA45S
400	100	22×25	0.15	0.70	EKMQ401VSN101MP25S
	120	22×30	0.15	0.75	EKMQ401VSN121MP30S
	150	22×30	0.15	0.88	EKMQ401VSN151MP30S
	150	25.4×25	0.15	0.88	EKMQ401VSN151MQ25S
	180	22×35	0.15	0.95	EKMQ401VSN181MP35S
	180	25.4×30	0.15	0.95	EKMQ401VSN181MQ30S
	220	22×45	0.15	1.10	EKMQ401VSN221MP45S
	220	25.4×35	0.15	1.10	EKMQ401VSN221MQ35S
	220	30×25	0.15	1.10	EKMQ401VSN221MR25S
	270	22×50	0.15	1.22	EKMQ401VSN271MP50S
	270	25.4×40	0.15	1.22	EKMQ401VSN271MQ40S
	270	30×30	0.15	1.22	EKMQ401VSN271MR30S
	270	35×25	0.15	1.22	EKMQ401VSN271MA25S
	330	25.4×45	0.15	1.44	EKMQ401VSN331MQ45S
	330	30×35	0.15	1.44	EKMQ401VSN331MR35S
	330	35×30	0.15	1.44	EKMQ401VSN331MA30S
	390	25.4×50	0.15	1.55	EKMQ401VSN391MQ50S
	390	30×40	0.15	1.55	EKMQ401VSN391MR40S
	390	35×30	0.15	1.55	EKMQ401VSN391MA30S
	470	30×45	0.15	1.68	EKMQ401VSN471MR45S
	470	35×35	0.15	1.68	EKMQ401VSN471MA35S
	560	30×50	0.15	1.90	EKMQ401VSN561MR50S
	560	35×40	0.15	1.90	EKMQ401VSN561MA40S
	680	35×45	0.15	2.12	EKMQ401VSN681MA45S
420	82	22×25	0.20	0.64	EKMQ421VSN820MP25S
	100	22×25	0.20	0.66	EKMQ421VSN101MP25S
	100	25.4×25	0.20	0.66	EKMQ421VSN101MQ25S
	120	22×30	0.20	0.81	EKMQ421VSN121MP30S
	120	25.4×25	0.20	0.81	EKMQ421VSN121MQ25S
	150	22×35	0.20	0.84	EKMQ421VSN151MP35S
	150	25.4×30	0.20	0.84	EKMQ421VSN151MQ30S
	150	30×25	0.20	0.84	EKMQ421VSN151MR25S
	180	22×40	0.20	0.91	EKMQ421VSN181MP40S
	180	25.4×30	0.20	0.91	EKMQ421VSN181MQ30S
	180	30×25	0.20	0.91	EKMQ421VSN181MR25S

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
420	220	22×45	0.20	1.05	EKMQ421VSN221MP45S
	220	25.4×35	0.20	1.05	EKMQ421VSN221MQ35S
	220	30×30	0.20	1.05	EKMQ421VSN221MR30S
	220	35×25	0.20	1.05	EKMQ421VSN221MA25S
	270	25.4×40	0.20	1.25	EKMQ421VSN271MQ40S
	270	30×30	0.20	1.25	EKMQ421VSN271MR30S
	270	35×25	0.20	1.25	EKMQ421VSN271MA25S
	330	25.4×50	0.20	1.42	EKMQ421VSN331MQ50S
	330	30×35	0.20	1.42	EKMQ421VSN331MR35S
	330	35×30	0.20	1.42	EKMQ421VSN331MA30S
	390	30×40	0.20	1.61	EKMQ421VSN391MR40S
	390	35×35	0.20	1.61	EKMQ421VSN391MA35S
	470	30×45	0.20	1.86	EKMQ421VSN471MR45S
	470	35×40	0.20	1.86	EKMQ421VSN471MA40S
	560	35×45	0.20	2.10	EKMQ421VSN561MA45S
	680	35×50	0.20	2.20	EKMQ421VSN681MA50S
450	68	22×25	0.20	0.50	EKMQ451VSN680MP25S
	82	22×30	0.20	0.56	EKMQ451VSN820MP30S
	100	22×30	0.20	0.64	EKMQ451VSN101MP30S
	100	25.4×25	0.20	0.64	EKMQ451VSN101MQ25S
	120	22×35	0.20	0.72	EKMQ451VSN121MP35S
	120	25.4×30	0.20	0.72	EKMQ451VSN121MQ30S
	150	22×40	0.20	0.79	EKMQ451VSN151MP40S
	150	25.4×30	0.20	0.79	EKMQ451VSN151MQ30S
	150	30×25	0.20	0.79	EKMQ451VSN151MR25S
	180	22×45	0.20	0.87	EKMQ451VSN181MP45S
	180	25.4×40	0.20	0.87	EKMQ451VSN181MQ40S
	180	30×30	0.20	0.87	EKMQ451VSN181MR30S
	220	25.4×45	0.20	1.00	EKMQ451VSN221MQ45S
	220	30×30	0.20	1.00	EKMQ451VSN221MR30S
	220	35×25	0.20	1.00	EKMQ451VSN221MA25S
	270	25.4×50	0.20	1.19	EKMQ451VSN271MQ50S
	270	30×40	0.20	1.19	EKMQ451VSN271MR40S
	270	35×30	0.20	1.19	EKMQ451VSN271MA30S
	330	30×45	0.20	1.38	EKMQ451VSN331MR45S
	330	35×35	0.20	1.38	EKMQ451VSN331MA35S
	390	30×50	0.20	1.55	EKMQ451VSN391MR50S
	390	35×40	0.20	1.55	EKMQ451VSN391MA40S
	470	35×45	0.20	1.74	EKMQ451VSN471MA45S
	560	35×50	0.20	1.90	EKMQ451VSN561MA50S

◆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

Unikeyic Electronics

Global Electronic Components Distributor

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Nippon Chemi-Con:

APXA6R3ARA471MJ80G EKMQ201VSN152MR40S EKY-101ETD221MK25S EMVY160ARA100MD55G
EKMG160ELL682MLN3S EKZN350ELL471MJ20S EGXF630ELL391MK20S EKXJ401ELL121MMN3S
EKYA500ELL222MLP1S EMZA630ARA301MKG5S EGPA350ELL122ML20S EGXF500ELL751MK25S
EKMG251ELL101MLN3S EKY-101ELL101MK16S EKYB250ELL102MJ20S HHXC500ARA470MHA0G
EKMG101ELL470MJC5S EKY-500ELL471MJ30S ELXZ630ELL152MM35S EKMQ401VSN151MQ25S
EKMS161VSN332MA50S EKY-250ELL331MJC5S EKZE101ELL101MK16S ESMQ401VSN181MP35S
EKXG351ELL151MMP1S EKXJ401ELL680ML25S EKYA100ELL331MF11D EMVE101ARA470MKE0S
EGPD250ELL302MK25H EKMR401VSN681MR50S