KMQ Series

- Endurance with ripple current : 2,000 hours at 105℃
- Downsized and high ripple current from KMH series
- **RoHS Compliant**

KMQ
Downsized
Higher ripple
KMH P270

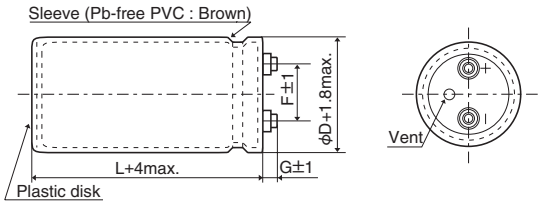


◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−25 to +105℃
Rated Voltage Range	315 to 450Vdc
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 5 minutes)
Dissipation Factor (tanδ)	Shall not exceed the values shown in the STANDARD RATINGS (at 20℃, 120Hz)
Low Temperature Characteristics	Capacitance change C(−25℃)/C(+20℃)≧0.7 (at 120Hz)
Insulation Resistance	When measured between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case by using an insulation resistance meter of 500Vdc, the insulation resistance shall not be less than 100MΩ.
Insulation Withstanding Voltage	When a voltage of 2,000Vac is applied for 1 minute between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.
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. (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 500 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: ≦±20% of the initial value D.F. (tanδ): ≦200% of the initial specified value Leakage current: ≦The initial specified value

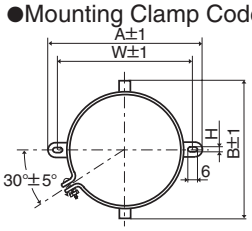
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG



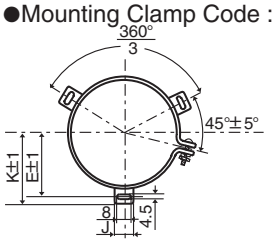
ϕ35 to ϕ63.5 : G=6
ϕ76.2 & ϕ89 : G=5

●Mounting Clamp Code : B



ϕD	A	B	W	H	F
35	58.0	44.0	48.0	3.5	12.7
50	78.0	64.0	68.0	4.5	22.4
63.5	90.0	76.0	80.0	4.5	28.0
76.2	104.5	90.0	93.5	4.5	31.5

●Mounting Clamp Code : C



ϕD	E	K	J	F
50	32.5	37.0	14.0	22.4
63.5	38.1	43.5	14.0	28.0
76.2	44.5	50.0	14.0	31.5
89	50.8	56.5	16.0	31.5

<Screw specifcations>
Plus hexagon-headed screw :M5×0.8×10
Maximum screw tightening torque :3.23Nm
* The screw and the mounting clamp are separately supplied and not attached to the product.

◆PART NUMBERING SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
E	K	M	Q	□	□	□	L	G	□	□	□	□	M	□	□	□	M

Supplement code
Size code
Capacitance tolerance code
Capacitance code (ex. 470μF:471, 1,800μF:182)
Mounting clamp code (N, B, C)
Terminal code
Voltage code (ex. 315V:3B1, 450V:451)
Series code
Category

Please refer to "Product code guide (screw-mount terminal type)"

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KMQ Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/105℃,120Hz)	Part No.
315	560	35×55	0.10	2.4	EKMQ3B1LGB561MA55M
	680	35×65	0.15	2.9	EKMQ3B1LGB681MA65M
	820	35×75	0.15	3.3	EKMQ3B1LGB821MA75M
	1,000	35×80	0.15	3.8	EKMQ3B1LGB102MA80M
	1,200	35×100	0.15	4.5	EKMQ3B1LGB122MAA0M
	1,500	50×70	0.15	5.4	EKMQ3B1LGC152MC70M
	1,800	50×75	0.15	6.0	EKMQ3B1LGC182MC75M
	2,200	50×90	0.15	7.2	EKMQ3B1LGC222MC90M
	2,700	50×100	0.15	8.4	EKMQ3B1LGC272MCA0M
	3,300	63.5×85	0.15	9.9	EKMQ3B1LGC332MD85M
	3,900	63.5×96	0.15	11.3	EKMQ3B1LGC392MD96M
	4,700	76.2×85	0.15	13.1	EKMQ3B1LGC472ME85M
	5,600	76.2×96	0.15	15.0	EKMQ3B1LGC562ME96M
	6,800	76.2×110	0.15	17.6	EKMQ3B1LGC682MEB0M
	8,200	89×100	0.15	17.2	EKMQ3B1LGC822MFA0M
	10,000	89×115	0.15	20.1	EKMQ3B1LGC103MFB5M
350	470	35×55	0.10	2.2	EKMQ351LGB471MA55M
	560	35×60	0.10	2.5	EKMQ351LGB561MA60M
	680	35×70	0.15	2.9	EKMQ351LGB681MA70M
	820	35×80	0.15	3.4	EKMQ351LGB821MA80M
	1,000	35×90	0.15	4.0	EKMQ351LGB102MA90M
	1,200	50×65	0.15	4.6	EKMQ351LGC122MC65M
	1,500	50×75	0.15	5.5	EKMQ351LGC152MC75M
	1,800	50×85	0.15	6.4	EKMQ351LGC182MC85M
	2,200	50×100	0.15	7.6	EKMQ351LGC222MCA0M
	2,700	63.5×85	0.15	9.0	EKMQ351LGC272MD85M
	3,900	76.2×80	0.15	11.7	EKMQ351LGC392ME80M
	5,600	76.2×105	0.15	15.6	EKMQ351LGC562MEA5M
	6,800	76.2×125	0.15	18.6	EKMQ351LGC682MEC5M
	8,200	89×115	0.15	18.2	EKMQ351LGC822MFB5M

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/105℃,120Hz)	Part No.
400	390	35×55	0.10	2.0	EKMQ401LGB391MA55M
	470	35×60	0.10	2.3	EKMQ401LGB471MA60M
	560	35×70	0.15	2.7	EKMQ401LGB561MA70M
	680	35×80	0.15	3.1	EKMQ401LGB681MA80M
	820	35×90	0.15	3.6	EKMQ401LGB821MA90M
	1,000	50×65	0.15	4.2	EKMQ401LGC102MC65M
	1,200	50×75	0.15	4.9	EKMQ401LGC122MC75M
	1,500	50×85	0.15	5.8	EKMQ401LGC152MC85M
	2,200	63.5×85	0.15	8.1	EKMQ401LGC222MD85M
	3,300	63.5×105	0.15	10.8	EKMQ401LGC332MDA5M
	4,700	76.2×105	0.15	14.3	EKMQ401LGC472MEA5M
	5,600	89×96	0.15	13.9	EKMQ401LGC562MF96M
	6,800	89×115	0.15	16.6	EKMQ401LGC682MFB5M
	8,200	89×130	0.15	19.2	EKMQ401LGC822MFD0M
450	330	35×55	0.10	1.8	EKMQ451LGB331MA55M
	390	35×65	0.10	2.2	EKMQ451LGB391MA65M
	470	35×75	0.10	2.5	EKMQ451LGB471MA75M
	560	35×80	0.15	2.8	EKMQ451LGB561MA80M
	680	35×100	0.15	3.5	EKMQ451LGB681MAA0M
	820	35×110	0.15	4.1	EKMQ451LGB821MAB0M
	1,000	50×80	0.15	4.6	EKMQ451LGC102MC80M
	1,200	50×90	0.15	5.3	EKMQ451LGC122MC90M
	1,500	50×105	0.15	6.4	EKMQ451LGC152MCA5M
	2,200	63.5×96	0.15	8.5	EKMQ451LGC222MD96M
	3,300	63.5×130	0.15	11.9	EKMQ451LGC332MDD0M
	4,700	76.2×130	0.15	15.7	EKMQ451LGC472MED0M
	5,600	76.2×155	0.15	18.5	EKMQ451LGC562MEF5M
	5,600	89×120	0.15	15.3	EKMQ451LGC562MFC0M
	6,800	89×140	0.15	18.0	EKMQ451LGC682MFE0M
	8,200	89×170	0.15	21.6	EKMQ451LGC822MFH0M

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	50	120	300	1k	3k
φ35, 50	0.70	1.00	1.30	1.70	1.80
φ63.5 to 89	0.80	1.00	1.10	1.15	1.15

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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