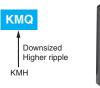




- Endurance with ripple current: 2,000 hours at 105°C
- Downsized and high ripple current from KMH series
- RoHS2 Compliant



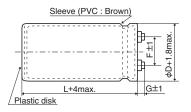


SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-25 to +105°C							
Rated Voltage Range	315 to 450V _{dc}							
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°C after 5 minutes)						
Dissipation Factor (tan δ)	Shall not exceed the valu	Shall not exceed the values shown in the STANDARD RATINGS (at 20°C, 120Hz)						
Low Temperature Characteristics	Capacitance change $C(-25^{\circ})/C(+20^{\circ}) \ge 0.7$ (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 $500V_{dc}$, the insulation resistance shall not be less than $100M\Omega$.							
Insulation Withstanding Voltage	When a voltage of 2,000V _{sc} 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°C after subjected to DC voltage with the rater ripple current is applied (the peak voltage shall not exceed the rated voltage) for 2,000 hours at 105°C.							
	Capacitance change	$\leq \pm 20\%$ 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°C after exposing them for 500 hours at 105°C with voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101							
	Capacitance change	\leq \pm 20% of the initial value						
	D.F. (tan δ) ≦200% of the initial specified value							
	Leakage current ≦The initial specified value							

◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code: LG

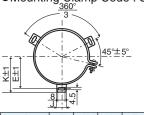






φD	Α	В	W	Н	F
35	58.0	44.0	48.0	3.5	12.7
50	78.0	64.0	68.0	4.5	22.4
63.5	90.0	76.0	80.0	4.5	28.0
76.2	104.5	90.0	93.5	4.5	31.5





φD	Е	E K		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	

φ76.2 & φ89 : G=5 <Screw specifcations>

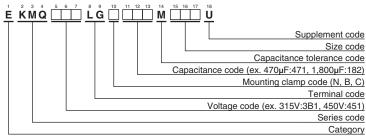
φ35 to φ63.5 : G=6

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



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





STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.		
	560	35 × 55	0.10	2.4	EKMQ3B1LGB561MA55U	1	Γ
	680	35 × 65	0.15	2.9	EKMQ3B1LGB681MA65U	1	l
	820	35 × 75	0.15	3.3	EKMQ3B1LGB821MA75U	1	l
	1,000	35 × 80	0.15	3.8	EKMQ3B1LGB102MA80U	1	l
	1,200	35 × 100	0.15	4.5	EKMQ3B1LGB122MAA0U	1	l
	1,500	50 × 70	0.15	5.4	EKMQ3B1LGC152MC70U	1	l
	1,800	50 × 75	0.15	6.0	EKMQ3B1LGC182MC75U	1	ĺ
045	2,200	50 × 90	0.15	7.2	EKMQ3B1LGC222MC90U	1	l
315	2,700	50 × 100	0.15	8.4	EKMQ3B1LGC272MCA0U	1	l
	3,300	63.5 × 85	0.15	9.9	EKMQ3B1LGC332MD85U	1	l
	3,900	63.5 × 96	0.15	11.3	EKMQ3B1LGC392MD96U	1	l
	4,700	76.2 × 85	0.15	13.1	EKMQ3B1LGC472ME85U	1	l
	5,600	76.2 × 96	0.15	15.0	EKMQ3B1LGC562ME96U	1	l
	6,800	76.2 × 110	0.15	17.6	EKMQ3B1LGC682MEB0U	1	ı
	8,200	89 × 100	0.15	17.2	EKMQ3B1LGC822MFA0U	1	Γ
	10,000	89 × 115	0.15	20.1	EKMQ3B1LGC103MFB5U	1	ı
	470	35 × 55	0.10	2.2	EKMQ351LGB471MA55U	1	ı
	560	35 × 60	0.10	2.5	EKMQ351LGB561MA60U	1	ı
	680	35 × 70	0.15	2.9	EKMQ351LGB681MA70U	1	l
	820	35 × 80	0.15	3.4	EKMQ351LGB821MA80U	1	l
	1,000	35 × 90	0.15	4.0	EKMQ351LGB102MA90U	1	l
	1,200	50 × 65	0.15	4.6	EKMQ351LGC122MC65U	1	l
050	1,500	50 × 75	0.15	5.5	EKMQ351LGC152MC75U	1	l
350	1,800	50 × 85	0.15	6.4	EKMQ351LGC182MC85U	1	l
	2,200	50 × 100	0.15	7.6	EKMQ351LGC222MCA0U	1	l
	2,700	63.5 × 85	0.15	9.0	EKMQ351LGC272MD85U	1	l
	3,900	76.2 × 80	0.15	11.7	EKMQ351LGC392ME80U		
	5,600	76.2 × 105	0.15	15.6	EKMQ351LGC562MEA5U		
	6,800	76.2 × 125	0.15	18.6	EKMQ351LGC682MEC5U		
	8,200	89 × 115	0.15	18.2	EKMQ351LGC822MFB5U	1	

WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
	390	35 × 55	0.10	2.0	EKMQ401LGB391MA55U
	470	35 × 60	0.10	2.3	EKMQ401LGB471MA60U
	560	35 × 70	0.15	2.7	EKMQ401LGB561MA70U
	680	35 × 80	0.15	3.1	EKMQ401LGB681MA80U
	820	35 × 90	0.15	3.6	EKMQ401LGB821MA90U
	1,000	50 × 65	0.15	4.2	EKMQ401LGC102MC65U
400	1,200	50 × 75	0.15	4.9	EKMQ401LGC122MC75U
400	1,500	50 × 85	0.15	5.8	EKMQ401LGC152MC85U
	2,200	63.5 × 85	0.15	8.1	EKMQ401LGC222MD85U
	3,300	63.5 × 105	0.15	10.8	EKMQ401LGC332MDA5U
	4,700	76.2 × 105	0.15	14.3	EKMQ401LGC472MEA5U
	5,600	89 × 96	0.15	13.9	EKMQ401LGC562MF96U
	6,800	89 × 115	0.15	16.6	EKMQ401LGC682MFB5U
	8,200	89 × 130	0.15	19.2	EKMQ401LGC822MFD0U
	330	35 × 55	0.10	1.8	EKMQ451LGB331MA55U
	390	35 × 65	0.10	2.2	EKMQ451LGB391MA65U
	470	35 × 75	0.10	2.5	EKMQ451LGB471MA75U
	560	35 × 80	0.15	2.8	EKMQ451LGB561MA80U
	680	35 × 100	0.15	3.5	EKMQ451LGB681MAA0U
	820	35 × 110	0.15	4.1	EKMQ451LGB821MAB0U
	1,000	50 × 80	0.15	4.6	EKMQ451LGC102MC80U
450	1,200	50 × 90	0.15	5.3	EKMQ451LGC122MC90U
130	1,500	50 × 105	0.15	6.4	EKMQ451LGC152MCA5U
	2,200	63.5 × 96	0.15	8.5	EKMQ451LGC222MD96U
	3,300	63.5 × 130	0.15	11.9	EKMQ451LGC332MDD0U
	4,700	76.2 × 130	0.15	15.7	EKMQ451LGC472MED0U
	5,600	76.2 × 155	0.15	18.5	EKMQ451LGC562MEF5U
	5,600	89 × 120	0.15	15.3	EKMQ451LGC562MFC0U
	6,800	89 × 140	0.15	18.0	EKMQ451LGC682MFE0U
	8,200	89 × 170	0.15	21.6	EKMQ451LGC822MFH0U

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency (Hz)	50	120	300	1k	3k
φ 35, 50	0.70	1.00	1.30	1.70	1.80
φ 63.5 to 89	0.80	1.00	1.10	1.15	1.15

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.



- 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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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.
 - The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.
 - 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