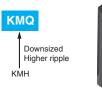




- Endurance with ripple current: 2,000 hours at 105°C
- Downsized and high ripple current from KMH series
- RoHS2 Compliant



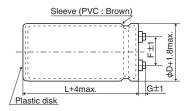


### **SPECIFICATIONS**

Items	Characteristics							
Category Temperature Range	-25 to +105°C							
Rated Voltage Range	315 to 450V <sub>dc</sub>							
Capacitance Tolerance	±20% (M)	±20% (M) (at 20°C, 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 $\delta$ )	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℃)/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 $500V_{dc}$ , the insulation resistance shall not be less than $100M\Omega$ .							
Insulation Withstanding Voltage	When a voltage of 2,000V <sub>ac</sub> 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		ns shall be satisfied when the capacitors he peak voltage shall not exceed the rate ≤±20% of the initial value ≤200% of the initial specified value ≤The initial specified value		DC voltage with the rated				
Shelf Life	0 1	s shall be satisfied when the capacitors are measurement, the capacitor shall be preceded as a second of the initial value ≤200% of the initial specified value ≤The initial specified value	1 0					

## ◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code: LG

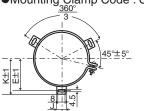




# ■Mounting Clamp Code : B

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	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	

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

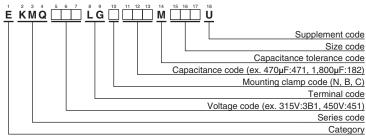
φ35 to φ63.5 : G=6

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 <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V <sub>dc</sub> )	Cap (µF)
	560	35 × 55	0.10	2.4	EKMQ3B1LGB561MA55U		390
	680	35 × 65	0.15	2.9	EKMQ3B1LGB681MA65U		470
	820	35 × 75	0.15	3.3	EKMQ3B1LGB821MA75U		560
	1,000	35 × 80	0.15	3.8	EKMQ3B1LGB102MA80U		680
	1,200	35 × 100	0.15	4.5	EKMQ3B1LGB122MAA0U		820
	1,500	50 × 70	0.15	5.4	EKMQ3B1LGC152MC70U		1,000
	1,800	50 × 75	0.15	6.0	EKMQ3B1LGC182MC75U	400	1,200
045	2,200	50 × 90	0.15	7.2	EKMQ3B1LGC222MC90U	400	1,500
315	2,700	50 × 100	0.15	8.4	EKMQ3B1LGC272MCA0U		2,200
	3,300	63.5 × 85	0.15	9.9	EKMQ3B1LGC332MD85U		3,300
	3,900	63.5 × 96	0.15	11.3	EKMQ3B1LGC392MD96U		4,700
	4,700	76.2 × 85	0.15	13.1	EKMQ3B1LGC472ME85U		5,600
	5,600	76.2 × 96	0.15	15.0	EKMQ3B1LGC562ME96U		6,800
	6,800	76.2 × 110	0.15	17.6	EKMQ3B1LGC682MEB0U		8,200
	8,200	89 × 100	0.15	17.2	EKMQ3B1LGC822MFA0U		330
	10,000	89 × 115	0.15	20.1	EKMQ3B1LGC103MFB5U		390
	470	35 × 55	0.10	2.2	EKMQ351LGB471MA55U		470
	560	35 × 60	0.10	2.5	EKMQ351LGB561MA60U		560
	680	35 × 70	0.15	2.9	EKMQ351LGB681MA70U		680
	820	35 × 80	0.15	3.4	EKMQ351LGB821MA80U		820
	1,000	35 × 90	0.15	4.0	EKMQ351LGB102MA90U		1,000
	1,200	50 × 65	0.15	4.6	EKMQ351LGC122MC65U	450	1,200
350	1,500	50 × 75	0.15	5.5	EKMQ351LGC152MC75U	450	1,500
330	1,800	50 × 85	0.15	6.4	EKMQ351LGC182MC85U		2,200
	2,200	50 × 100	0.15	7.6	EKMQ351LGC222MCA0U		3,300
	2,700	63.5 × 85	0.15	9.0	EKMQ351LGC272MD85U		4,700
	3,900	76.2 × 80	0.15	11.7	EKMQ351LGC392ME80U		5,600
	5,600	76.2 × 105	0.15	15.6	EKMQ351LGC562MEA5U		5,600
	6,800	76.2 × 125	0.15	18.6	EKMQ351LGC682MEC5U		6,800
	8,200	89 × 115	0.15	18.2	EKMQ351LGC822MFB5U		8,200

WV (V <sub>dc</sub> )	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
730	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	$76.2 \times 130$	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.
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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