LXG Series

- Endurance with ripple current : 5,000 hours at 105℃
- Non solvent resistant type
- RoHS2 Compliant

LXG
Longer life
KMQ

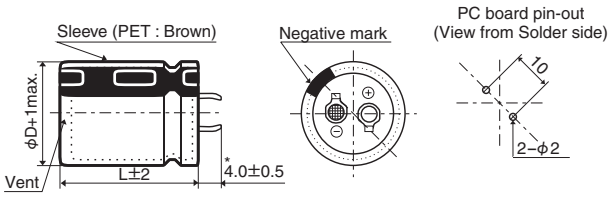


◆SPECIFICATIONS

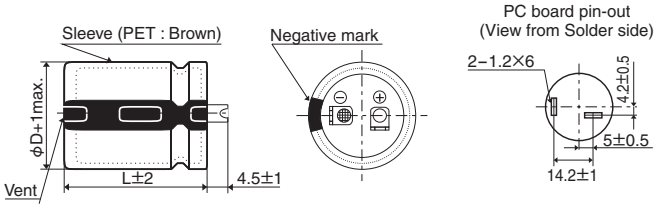
Items	Characteristics								
Category Temperature Range	-40 to +105℃								
Rated Voltage Range	10 to 100Vdc								
Capacitance Tolerance	±20% (M)								(at 20℃, 120Hz)
Leakage Current	I=0.02CV or 3mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)								(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (Vdc)	10V	16V	25V	35V	50V	63V	80 & 100V	
	tan δ (Max.)	0.60	0.45	0.30	0.25	0.20	0.15	0.15	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Capacitance change : Capacitance at the lowest operating temperature shall not be less than 70% of the 20℃ value.								
	Rated voltage (Vdc)	10V	16V	25V	35V	50V	63V	80 & 100V	
	Z(-25℃)/Z(+20℃)	4	4	3	3	2	2	2	
	Z(-40℃)/Z(+20℃)	15	15	10	8	6	6	5	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105℃.								
	Capacitance change	≦±25% of the initial value							
	D.F. (tan δ)	≦250% 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. (tan δ)	≦150% of the initial specified value							
	Leakage current	≦The initial specified value							

◆DIMENSIONS [mm]

●Terminal Code : VS (φ22 to φ35) : Standard



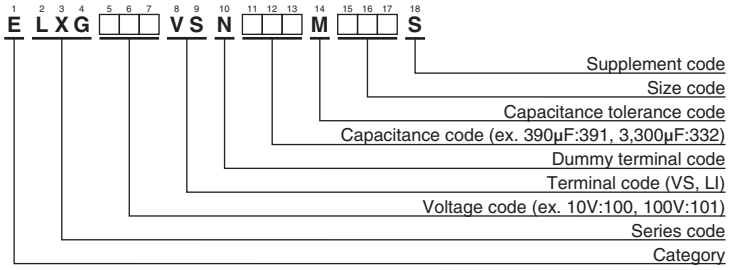
●Terminal Code : LI (φ35)



*φD=35mm : 3.5±0.5mm

The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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

◆RATED RIPPLE CURRENT MULTIPLIERS

- Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
10 to 50Vdc	0.95	1.00	1.03	1.05	1.08	1.08
63 to 100Vdc	0.92	1.00	1.07	1.13	1.19	1.20

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.

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LXG Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
10	6,800	22 × 25	0.60	1.30	ELXG100VSN682MP25S
	10,000	22 × 30	0.60	1.65	ELXG100VSN103MP30S
	10,000	25.4 × 25	0.60	1.64	ELXG100VSN103MQ25S
	12,000	22 × 35	0.60	1.85	ELXG100VSN123MP35S
	12,000	25.4 × 30	0.60	1.85	ELXG100VSN123MQ30S
	12,000	30 × 25	0.60	1.89	ELXG100VSN123MR25S
	15,000	22 × 40	0.60	2.12	ELXG100VSN153MP40S
	15,000	25.4 × 35	0.60	2.16	ELXG100VSN153MQ35S
	18,000	22 × 50	0.60	2.45	ELXG100VSN183MP50S
	18,000	25.4 × 40	0.60	2.43	ELXG100VSN183MQ40S
	18,000	30 × 30	0.60	2.37	ELXG100VSN183MR30S
	18,000	35 × 25	0.60	2.42	ELXG100VSN183MA25S
	22,000	30 × 35	0.60	2.73	ELXG100VSN223MR35S
	22,000	35 × 30	0.60	2.79	ELXG100VSN223MA30S
	27,000	25.4 × 50	0.60	3.11	ELXG100VSN273MQ50S
	27,000	30 × 40	0.60	3.13	ELXG100VSN273MR40S
	33,000	35 × 35	0.60	3.49	ELXG100VSN333MA35S
	39,000	30 × 50	0.60	3.99	ELXG100VSN393MR50S
	39,000	35 × 40	0.60	3.96	ELXG100VSN393MA40S
	47,000	35 × 50	0.60	4.62	ELXG100VSN473MA50S
16	5,600	22 × 25	0.45	1.44	ELXG160VSN562MP25S
	6,800	22 × 30	0.45	1.66	ELXG160VSN682MP30S
	6,800	25.4 × 25	0.45	1.66	ELXG160VSN682MQ25S
	8,200	22 × 35	0.45	1.87	ELXG160VSN822MP35S
	10,000	22 × 40	0.45	2.12	ELXG160VSN103MP40S
	10,000	25.4 × 30	0.45	2.07	ELXG160VSN103MQ30S
	10,000	30 × 25	0.45	2.11	ELXG160VSN103MR25S
	12,000	25.4 × 35	0.45	2.37	ELXG160VSN123MQ35S
	12,000	30 × 30	0.45	2.37	ELXG160VSN123MR30S
	12,000	35 × 25	0.45	2.42	ELXG160VSN123MA25S
	15,000	22 × 50	0.45	2.74	ELXG160VSN153MP50S
	15,000	25.4 × 40	0.45	2.71	ELXG160VSN153MQ40S
	18,000	25.4 × 50	0.45	3.11	ELXG160VSN183MQ50S
	18,000	30 × 35	0.45	3.02	ELXG160VSN183MR35S
	18,000	35 × 30	0.45	3.09	ELXG160VSN183MA30S
	22,000	30 × 40	0.45	3.46	ELXG160VSN223MR40S
	22,000	35 × 35	0.45	3.49	ELXG160VSN223MA35S
	27,000	30 × 50	0.45	4.07	ELXG160VSN273MR50S
	27,000	35 × 40	0.45	4.04	ELXG160VSN273MA40S
	39,000	35 × 50	0.45	5.16	ELXG160VSN393MA50S
25	3,900	22 × 25	0.30	1.31	ELXG250VSN392MP25S
	4,700	22 × 30	0.30	1.51	ELXG250VSN472MP30S
	4,700	25.4 × 25	0.30	1.51	ELXG250VSN472MQ25S
	5,600	22 × 35	0.30	1.70	ELXG250VSN562MP35S
	6,800	22 × 40	0.30	1.92	ELXG250VSN682MP40S
	6,800	25.4 × 30	0.30	1.87	ELXG250VSN682MQ30S
	6,800	30 × 25	0.30	1.90	ELXG250VSN682MR25S
	8,200	25.4 × 35	0.30	2.14	ELXG250VSN822MQ35S
	8,200	30 × 30	0.30	2.15	ELXG250VSN822MR30S
	8,200	35 × 25	0.30	2.19	ELXG250VSN822MA25S
	10,000	22 × 50	0.30	2.45	ELXG250VSN103MP50S
	10,000	25.4 × 40	0.30	2.43	ELXG250VSN103MQ40S
	12,000	25.4 × 50	0.30	2.78	ELXG250VSN123MQ50S
	12,000	30 × 35	0.30	2.70	ELXG250VSN123MR35S
	12,000	35 × 30	0.30	2.76	ELXG250VSN123MA30S
	15,000	30 × 40	0.30	3.13	ELXG250VSN153MR40S
	15,000	35 × 35	0.30	3.16	ELXG250VSN153MA35S
	18,000	30 × 50	0.30	3.64	ELXG250VSN183MR50S
	18,000	35 × 40	0.30	3.61	ELXG250VSN183MA40S
	27,000	35 × 50	0.30	4.70	ELXG250VSN273MA50S
35	2,200	22 × 25	0.25	1.10	ELXG350VSN222MP25S
	3,300	22 × 30	0.25	1.42	ELXG350VSN332MP30S
	3,300	25.4 × 25	0.25	1.41	ELXG350VSN332MQ25S
	3,900	22 × 35	0.25	1.58	ELXG350VSN392MP35S
	3,900	25.4 × 30	0.25	1.58	ELXG350VSN392MQ30S
	4,700	22 × 40	0.25	1.78	ELXG350VSN472MP40S
	4,700	30 × 25	0.25	1.77	ELXG350VSN472MR25S

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
35	5,600	25.4 × 35	0.25	1.98	ELXG350VSN562MQ35S
	5,600	30 × 30	0.25	1.98	ELXG350VSN562MR30S
	5,600	35 × 25	0.25	2.03	ELXG350VSN562MA25S
	6,800	22 × 50	0.25	2.26	ELXG350VSN682MP50S
	6,800	25.4 × 40	0.25	2.24	ELXG350VSN682MQ40S
	8,200	25.4 × 50	0.25	2.57	ELXG350VSN822MQ50S
	8,200	30 × 35	0.25	2.50	ELXG350VSN822MR35S
	8,200	35 × 30	0.25	2.55	ELXG350VSN822MA30S
	10,000	30 × 40	0.25	2.86	ELXG350VSN103MR40S
	10,000	35 × 35	0.25	2.88	ELXG350VSN103MA35S
	12,000	30 × 50	0.25	3.32	ELXG350VSN123MR50S
	12,000	35 × 40	0.25	3.30	ELXG350VSN123MA40S
	18,000	35 × 50	0.25	4.29	ELXG350VSN183MA50S
50	1,500	22 × 25	0.20	1.02	ELXG500VSN152MP25S
	1,800	22 × 30	0.20	1.17	ELXG500VSN182MP30S
	1,800	25.4 × 25	0.20	1.17	ELXG500VSN182MQ25S
	2,200	22 × 35	0.20	1.33	ELXG500VSN222MP35S
	2,700	22 × 40	0.20	1.51	ELXG500VSN272MP40S
	2,700	25.4 × 30	0.20	1.47	ELXG500VSN272MQ30S
	2,700	30 × 25	0.20	1.50	ELXG500VSN272MR25S
	3,300	25.4 × 35	0.20	1.70	ELXG500VSN332MQ35S
	3,300	30 × 30	0.20	1.70	ELXG500VSN332MR30S
	3,300	35 × 25	0.20	1.74	ELXG500VSN332MA25S
	3,900	22 × 50	0.20	1.91	ELXG500VSN392MP50S
	3,900	25.4 × 40	0.20	1.89	ELXG500VSN392MQ40S
	4,700	30 × 35	0.20	2.11	ELXG500VSN472MR35S
	4,700	35 × 30	0.20	2.16	ELXG500VSN472MA30S
	5,600	25.4 × 50	0.20	2.38	ELXG500VSN562MQ50S
	5,600	30 × 40	0.20	2.39	ELXG500VSN562MR40S
	5,600	35 × 35	0.20	2.41	ELXG500VSN562MA35S
	6,800	30 × 50	0.20	2.79	ELXG500VSN682MR50S
	6,800	35 × 40	0.20	2.78	ELXG500VSN682MA40S
	10,000	35 × 50	0.20	3.57	ELXG500VSN103MA50S
63	1,000	22 × 25	0.15	1.00	ELXG630VSN102MP25S
	1,200	22 × 30	0.15	1.15	ELXG630VSN122MP30S
	1,200	25.4 × 25	0.15	1.15	ELXG630VSN122MQ25S
	1,500	22 × 35	0.15	1.32	ELXG630VSN152MP35S
	1,800	22 × 40	0.15	1.49	ELXG630VSN182MP40S
	1,800	25.4 × 30	0.15	1.45	ELXG630VSN182MQ30S
	1,800	30 × 25	0.15	1.48	ELXG630VSN182MR25S
	2,200	25.4 × 35	0.15	1.67	ELXG630VSN222MQ35S
	2,200	30 × 30	0.15	1.68	ELXG630VSN222MR30S
	2,200	35 × 25	0.15	1.71	ELXG630VSN222MA25S
	2,700	22 × 50	0.15	1.92	ELXG630VSN272MP50S
	2,700	25.4 × 40	0.15	1.90	ELXG630VSN272MQ40S
	2,700	30 × 35	0.15	1.93	ELXG630VSN272MR35S
	3,300	25.4 × 50	0.15	2.20	ELXG630VSN332MQ50S
	3,300	35 × 30	0.15	2.18	ELXG630VSN332MA30S
	3,900	30 × 40	0.15	2.41	ELXG630VSN392MR40S
	3,900	35 × 35	0.15	2.43	ELXG630VSN392MA35S
	4,700	30 × 50	0.15	2.80	ELXG630VSN472MR50S
	4,700	35 × 40	0.15	2.78	ELXG630VSN472MA40S
	6,800	35 × 50	0.15	3.55	ELXG630VSN682MA50S
80	680	22 × 25	0.15	0.97	ELXG800VSN681MP25S
	820	22 × 30	0.15	1.12	ELXG800VSN821MP30S
	1,000	22 × 35	0.15	1.27	ELXG800VSN102MP35S
	1,000	25.4 × 25	0.15	1.23	ELXG800VSN102MQ25S
	1,200	22 × 40	0.15	1.42	ELXG800VSN122MP40S
	1,200	25.4 × 30	0.15	1.39	ELXG800VSN122MQ30S
	1,200	30 × 25	0.15	1.41	ELXG800VSN122MR25S
	1,500	25.4 × 35	0.15	1.62	ELXG800VSN152MQ35S
	1,800	22 × 50	0.15	1.84	ELXG800VSN182MP50S
	1,800	25.4 × 40	0.15	1.82	ELXG800VSN182MQ40S
	1,800	30 × 30	0.15	1.78	ELXG800VSN182MR30S
	1,800	35 × 25	0.15	1.82	ELXG800VSN182MA25S
	2,200	25.4 × 50	0.15	2.11	ELXG800VSN222MQ50S
	2,200	30 × 35	0.15	2.05	ELXG800VSN222MR35S

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LXG Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
80	2,200	35 × 30	0.15	2.09	ELXG800VSN222MA30S
	2,700	30 × 40	0.15	2.35	ELXG800VSN272MR40S
	2,700	35 × 35	0.15	2.37	ELXG800VSN272MA35S
	3,300	30 × 50	0.15	2.75	ELXG800VSN332MR50S
	3,300	35 × 40	0.15	2.73	ELXG800VSN332MA40S
	4,700	35 × 50	0.15	3.46	ELXG800VSN472MA50S
100	390	22 × 25	0.15	0.78	ELXG101VSN391MP25S
	560	22 × 30	0.15	0.99	ELXG101VSN561MP30S
	560	25.4 × 25	0.15	0.98	ELXG101VSN561MQ25S
	680	22 × 35	0.15	1.12	ELXG101VSN681MP35S
	820	22 × 40	0.15	1.26	ELXG101VSN821MP40S
	820	25.4 × 30	0.15	1.23	ELXG101VSN821MQ30S
	820	30 × 25	0.15	1.25	ELXG101VSN821MR25S

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
100	1,000	25.4 × 35	0.15	1.41	ELXG101VSN102MQ35S
	1,000	30 × 30	0.15	1.42	ELXG101VSN102MR30S
	1,000	35 × 25	0.15	1.45	ELXG101VSN102MA25S
	1,200	22 × 50	0.15	1.60	ELXG101VSN122MP50S
	1,200	25.4 × 40	0.15	1.59	ELXG101VSN122MQ40S
	1,200	30 × 35	0.15	1.61	ELXG101VSN122MR35S
	1,500	25.4 × 50	0.15	1.86	ELXG101VSN152MQ50S
	1,500	30 × 40	0.15	1.87	ELXG101VSN152MR40S
	1,500	35 × 30	0.15	1.85	ELXG101VSN152MA30S
	1,800	35 × 35	0.15	2.07	ELXG101VSN182MA35S
	2,200	30 × 50	0.15	2.40	ELXG101VSN222MR50S
	2,200	35 × 40	0.15	2.39	ELXG101VSN222MA40S
	2,700	35 × 50	0.15	2.81	ELXG101VSN272MA50S

◆MAXIMUM IMPEDANCE [mΩ/20℃, 30kHz]

Case size φD×L(mm) \ V_{dc}	10 to 63	80	100
22×25	120	150	
22×30	100	120	
22×35	80	95	
22×40	70	80	
22×50	50	60	
25.4×25	90	110	
25.4×30	70	85	
25.4×35	60	70	
25.4×40	50	60	
25.4×50	40	45	
30×25	70	80	
30×30	50	60	
30×35	40	50	
30×40	35	40	
30×50	25	30	
35×25	65	70	
35×30	45	50	
35×35	38	40	
35×40	30	30	
35×50	23	25	

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■ 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.

■ We strongly recommend our customers to purchase Nippon Chemi-Con products only through our official sales channels. We assume no responsibility for any defects or damages caused by using products purchased from outside our official sales channel or of counterfeit goods. In addition, we will ask the customer to pay the investigation cost for products purchased outside our official sales channel.

■ 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

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