

LXG Series

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

LXG

Longer life

KMQ

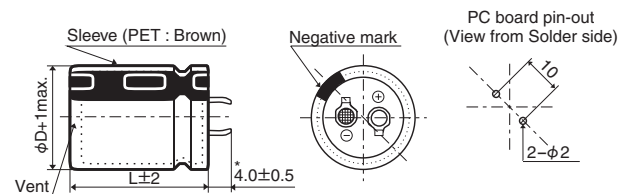


SPECIFICATIONS

Items	Characteristics								
Category	-40 to +105℃								
Temperature Range									
Rated Voltage Range	10 to 100V _{dc}								
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 (V _{dc})	10V	16V	25V	35V	50V	63V	80 & 100V	(at 20℃, 120Hz)
	tan δ (Max.)	0.60	0.45	0.30	0.25	0.20	0.15	0.15	
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 (V _{dc})	10V	16V	25V	35V	50V	63V	80 & 100V	(at 120Hz)
	Z(-25℃)/Z(+20℃)	4	4	3	3	2	2	2	
	Z(-40℃)/Z(+20℃)	15	15	10	8	6	6	5	
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]

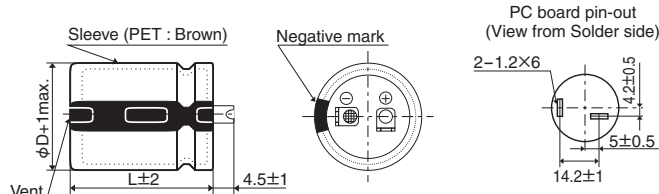
●Terminal Code : VS (φ22 to φ35) : Standard



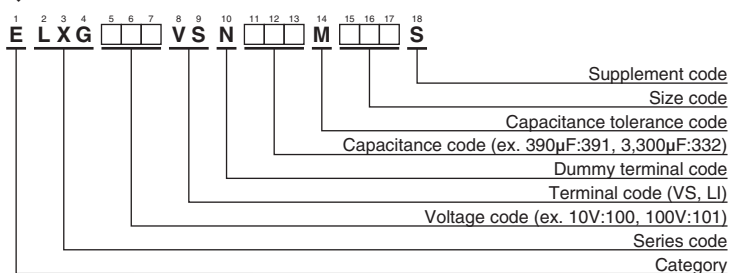
*φD=35mm : 3.5±0.5mm

The standard design has no plastic disc.

●Terminal Code : LI (φ35)



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 50V _{dc}	0.95	1.00	1.03	1.05	1.08	1.08
63 to 100V _{dc}	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.



◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
10	6,800	22 × 25	0.60	1.30	ELXG100VSN682MP25S	35	5,600	25.4 × 35	0.25	1.98	ELXG350VSN562MQ35S
	10,000	22 × 30	0.60	1.65	ELXG100VSN103MP30S		5,600	30 × 30	0.25	1.98	ELXG350VSN562MR30S
	10,000	25.4 × 25	0.60	1.64	ELXG100VSN103MQ25S		5,600	35 × 25	0.25	2.03	ELXG350VSN562MA25S
	12,000	22 × 35	0.60	1.85	ELXG100VSN123MP35S		6,800	22 × 50	0.25	2.26	ELXG350VSN682MP50S
	12,000	25.4 × 30	0.60	1.85	ELXG100VSN123MQ30S		6,800	25.4 × 40	0.25	2.24	ELXG350VSN682MQ40S
	12,000	30 × 25	0.60	1.89	ELXG100VSN123MR25S		8,200	25.4 × 50	0.25	2.57	ELXG350VSN822MQ50S
	15,000	22 × 40	0.60	2.12	ELXG100VSN153MP40S		8,200	30 × 35	0.25	2.50	ELXG350VSN822MR35S
	15,000	25.4 × 35	0.60	2.16	ELXG100VSN153MQ35S		8,200	35 × 30	0.25	2.55	ELXG350VSN822MA30S
	18,000	22 × 50	0.60	2.45	ELXG100VSN183MP50S		10,000	30 × 40	0.25	2.86	ELXG350VSN103MR40S
	18,000	25.4 × 40	0.60	2.43	ELXG100VSN183MQ40S		10,000	35 × 35	0.25	2.88	ELXG350VSN103MA35S
	18,000	30 × 30	0.60	2.37	ELXG100VSN183MR30S		12,000	30 × 50	0.25	3.32	ELXG350VSN123MR50S
	18,000	35 × 25	0.60	2.42	ELXG100VSN183MA25S		12,000	35 × 40	0.25	3.30	ELXG350VSN123MA40S
	22,000	30 × 35	0.60	2.73	ELXG100VSN223MR35S		18,000	35 × 50	0.25	4.29	ELXG350VSN183MA50S
	22,000	35 × 30	0.60	2.79	ELXG100VSN223MA30S	50	1,500	22 × 25	0.20	1.02	ELXG500VSN152MP25S
	27,000	25.4 × 50	0.60	3.11	ELXG100VSN273MQ50S		1,800	22 × 30	0.20	1.17	ELXG500VSN182MP30S
	27,000	30 × 40	0.60	3.13	ELXG100VSN273MR40S		1,800	25.4 × 25	0.20	1.17	ELXG500VSN182MQ25S
	33,000	35 × 35	0.60	3.49	ELXG100VSN333MA35S		2,200	22 × 35	0.20	1.33	ELXG500VSN222MP35S
	39,000	30 × 50	0.60	3.99	ELXG100VSN393MR50S		2,700	22 × 40	0.20	1.51	ELXG500VSN272MP40S
	39,000	35 × 40	0.60	3.96	ELXG100VSN393MA40S		2,700	25.4 × 30	0.20	1.47	ELXG500VSN272MQ30S
	47,000	35 × 50	0.60	4.62	ELXG100VSN473MA50S		2,700	30 × 25	0.20	1.50	ELXG500VSN272MR25S
16	5,600	22 × 25	0.45	1.44	ELXG160VSN562MP25S		3,300	25.4 × 35	0.20	1.70	ELXG500VSN332MQ35S
	6,800	22 × 30	0.45	1.66	ELXG160VSN682MP30S		3,300	30 × 30	0.20	1.70	ELXG500VSN332MR30S
	6,800	25.4 × 25	0.45	1.66	ELXG160VSN682MQ25S		3,300	35 × 25	0.20	1.74	ELXG500VSN332MA25S
	8,200	22 × 35	0.45	1.87	ELXG160VSN822MP35S		3,900	22 × 50	0.20	1.91	ELXG500VSN392MP50S
	10,000	22 × 40	0.45	2.12	ELXG160VSN103MP40S		3,900	25.4 × 40	0.20	1.89	ELXG500VSN392MQ40S
	10,000	25.4 × 30	0.45	2.07	ELXG160VSN103MQ30S		4,700	30 × 35	0.20	2.11	ELXG500VSN472MR35S
	10,000	30 × 25	0.45	2.11	ELXG160VSN103MR25S		4,700	35 × 30	0.20	2.16	ELXG500VSN472MA30S
	12,000	25.4 × 35	0.45	2.37	ELXG160VSN123MQ35S		5,600	25.4 × 50	0.20	2.38	ELXG500VSN562MQ50S
	12,000	30 × 30	0.45	2.37	ELXG160VSN123MR30S		5,600	30 × 40	0.20	2.39	ELXG500VSN562MR40S
	12,000	35 × 25	0.45	2.42	ELXG160VSN123MA25S		5,600	35 × 35	0.20	2.41	ELXG500VSN562MA35S
	15,000	22 × 50	0.45	2.74	ELXG160VSN153MP50S		6,800	30 × 50	0.20	2.79	ELXG500VSN682MR50S
	15,000	25.4 × 40	0.45	2.71	ELXG160VSN153MQ40S		6,800	35 × 40	0.20	2.78	ELXG500VSN682MA40S
	18,000	25.4 × 50	0.45	3.11	ELXG160VSN183MQ50S		10,000	35 × 50	0.20	3.57	ELXG500VSN103MA50S
	18,000	30 × 35	0.45	3.02	ELXG160VSN183MR35S	63	1,000	22 × 25	0.15	1.00	ELXG630VSN102MP25S
	18,000	35 × 30	0.45	3.09	ELXG160VSN183MA30S		1,200	22 × 30	0.15	1.15	ELXG630VSN122MP30S
	22,000	30 × 40	0.45	3.46	ELXG160VSN223MR40S		1,200	25.4 × 25	0.15	1.15	ELXG630VSN122MQ25S
	22,000	35 × 35	0.45	3.49	ELXG160VSN223MA35S		1,500	22 × 35	0.15	1.32	ELXG630VSN152MP35S
	27,000	30 × 50	0.45	4.07	ELXG160VSN273MR50S		1,800	22 × 40	0.15	1.49	ELXG630VSN182MP40S
	27,000	35 × 40	0.45	4.04	ELXG160VSN273MA40S		1,800	25.4 × 30	0.15	1.45	ELXG630VSN182MQ30S
	39,000	35 × 50	0.45	5.16	ELXG160VSN393MA50S		1,800	30 × 25	0.15	1.48	ELXG630VSN182MR25S
25	3,900	22 × 25	0.30	1.31	ELXG250VSN392MP25S		2,200	25.4 × 35	0.15	1.67	ELXG630VSN222MQ35S
	4,700	22 × 30	0.30	1.51	ELXG250VSN472MP30S		2,200	30 × 30	0.15	1.68	ELXG630VSN222MR30S
	4,700	25.4 × 25	0.30	1.51	ELXG250VSN472MQ25S		2,200	35 × 25	0.15	1.71	ELXG630VSN222MA25S
	5,600	22 × 35	0.30	1.70	ELXG250VSN562MP35S		2,700	22 × 50	0.15	1.92	ELXG630VSN272MP50S
	6,800	22 × 40	0.30	1.92	ELXG250VSN682MP40S		2,700	25.4 × 40	0.15	1.90	ELXG630VSN272MQ40S
	6,800	25.4 × 30	0.30	1.87	ELXG250VSN682MQ30S		2,700	30 × 35	0.15	1.93	ELXG630VSN272MR35S
	6,800	30 × 25	0.30	1.90	ELXG250VSN682MR25S		3,300	25.4 × 50	0.15	2.20	ELXG630VSN332MQ50S
	8,200	25.4 × 35	0.30	2.14	ELXG250VSN822MQ35S		3,300	35 × 30	0.15	2.18	ELXG630VSN332MA30S
	8,200	30 × 30	0.30	2.15	ELXG250VSN822MR30S		3,900	30 × 40	0.15	2.41	ELXG630VSN392MR40S
	8,200	35 × 25	0.30	2.19	ELXG250VSN822MA25S		3,900	35 × 35	0.15	2.43	ELXG630VSN392MA35S
	10,000	22 × 50	0.30	2.45	ELXG250VSN103MP50S		4,700	30 × 50	0.15	2.80	ELXG630VSN472MR50S
	10,000	25.4 × 40	0.30	2.43	ELXG250VSN103MQ40S		4,700	35 × 40	0.15	2.78	ELXG630VSN472MA40S
	12,000	25.4 × 50	0.30	2.78	ELXG250VSN123MQ50S		6,800	35 × 50	0.15	3.55	ELXG630VSN682MA50S
	12,000	30 × 35	0.30	2.70	ELXG250VSN123MR35S	80	680	22 × 25	0.15	0.97	ELXG800VSN681MP25S
	12,000	35 × 30	0.30	2.76	ELXG250VSN123MA30S		820	22 × 30	0.15	1.12	ELXG800VSN821MP30S
	15,000	30 × 40	0.30	3.13	ELXG250VSN153MR40S		1,000	22 × 35	0.15	1.27	ELXG800VSN102MP35S
	15,000	35 × 35	0.30	3.16	ELXG250VSN153MA35S		1,000	25.4 × 25	0.15	1.23	ELXG800VSN102MQ25S
	18,000	30 × 50	0.30	3.64	ELXG250VSN183MR50S		1,200	22 × 40	0.15	1.42	ELXG800VSN122MP40S
	18,000	35 × 40	0.30	3.61	ELXG250VSN183MA40S		1,200	25.4 × 30	0.15	1.39	ELXG800VSN122MQ30S
	27,000	35 × 50	0.30	4.70	ELXG250VSN273MA50S		1,200	30 × 25	0.15	1.41	ELXG800VSN122MR25S
35	2,200	22 × 25	0.25	1.10	ELXG350VSN222MP25S		1,500	25.4 × 35	0.15	1.62	ELXG800VSN152MQ35S
	3,300	22 × 30	0.25	1.42	ELXG350VSN332MP30S		1,800	22 × 50	0.15	1.84	ELXG800VSN182MP50S
	3,300	25.4 × 25	0.25	1.41	ELXG350VSN332MQ25S		1,800	25.4 × 40	0.15	1.82	ELXG800VSN182MQ40S
	3,900	22 × 35	0.25	1.58	ELXG350VSN392MP35S		1,800	30 × 30	0.15	1.78	ELXG800VSN182MR30S
	3,900	25.4 × 30	0.25	1.58	ELXG350VSN392MQ30S		1,800	35 × 25	0.15	1.82	ELXG800VSN182MA25S
	4,700	22 × 40	0.25	1.78	ELXG350VSN472MP40S		2,200	25.4 × 50	0.15	2.11	ELXG800VSN222MQ50S
	4,700	30 × 25	0.25	1.77	ELXG350VSN472MR25S		2,200	30 × 35	0.15	2.05	ELXG800VSN222MR35S



LXG Series

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
80	2,200	35 × 30	0.15	2.09	ELXG800VSN222MA30S	100	1,000	25.4 × 35	0.15	1.41	ELXG101VSN102MQ35S
	2,700	30 × 40	0.15	2.35	ELXG800VSN272MR40S		1,000	30 × 30	0.15	1.42	ELXG101VSN102MR30S
	2,700	35 × 35	0.15	2.37	ELXG800VSN272MA35S		1,000	35 × 25	0.15	1.45	ELXG101VSN102MA25S
	3,300	30 × 50	0.15	2.75	ELXG800VSN332MR50S		1,200	22 × 50	0.15	1.60	ELXG101VSN122MP50S
	3,300	35 × 40	0.15	2.73	ELXG800VSN332MA40S		1,200	25.4 × 40	0.15	1.59	ELXG101VSN122MQ40S
	4,700	35 × 50	0.15	3.46	ELXG800VSN472MA50S		1,200	30 × 35	0.15	1.61	ELXG101VSN122MR35S
100	390	22 × 25	0.15	0.78	ELXG101VSN391MP25S		1,500	25.4 × 50	0.15	1.86	ELXG101VSN152MQ50S
	560	22 × 30	0.15	0.99	ELXG101VSN561MP30S		1,500	30 × 40	0.15	1.87	ELXG101VSN152MR40S
	560	25.4 × 25	0.15	0.98	ELXG101VSN561MQ25S		1,500	35 × 30	0.15	1.85	ELXG101VSN152MA30S
	680	22 × 35	0.15	1.12	ELXG101VSN681MP35S		1,800	35 × 35	0.15	2.07	ELXG101VSN182MA35S
	820	22 × 40	0.15	1.26	ELXG101VSN821MP40S		2,200	30 × 50	0.15	2.40	ELXG101VSN222MR50S
	820	25.4 × 30	0.15	1.23	ELXG101VSN821MQ30S		2,200	35 × 40	0.15	2.39	ELXG101VSN222MA40S
	820	30 × 25	0.15	1.25	ELXG101VSN821MR25S		2,700	35 × 50	0.15	2.81	ELXG101VSN272MA50S

◆MAXIMUM IMPEDANCE [mΩ/20°C, 30kHz]

V _{dc}	10 to 63	80	100
Case size φD×L(mm)			
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	



- 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](#)