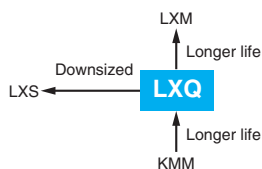


# LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Long life snap-ins, 105°C

## Series

ripple current : 5,000 hours at 105°C  
 higher ripple version of LXG series  
 instant type  
 ant

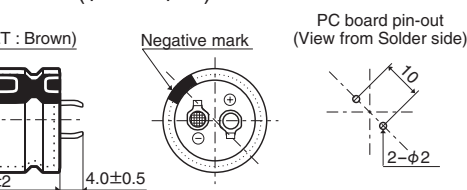


## CONDITIONS

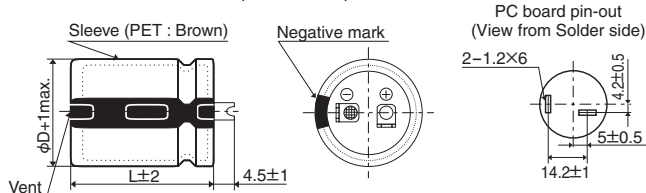
Characteristics	
Temperature range	-25 to +105°C
Rated voltage	160 to 450V <sub>dc</sub>
Capacitance tolerance	±20% (M) (at 20°C, 120Hz)
Leakage current	$I \leq 3\sqrt{CV}$ Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 5 minutes)
Rated voltage (V <sub>dc</sub> )	160 to 400V      420 & 450V
tan δ (Max.)	0.15      0.20 (at 20°C, 120Hz)
Rated voltage (V <sub>dc</sub> )	160 to 400V      420 & 450V
Z(-25°C)/Z(+20°C)	4      8 (at 120Hz)
Notes	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105°C.
Capacitance change	≤ ±20% of the initial value
D.F. (tan δ)	≤ 200% of the initial specified value
Leakage current	≤ The initial specified value
Notes	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C 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	≤ ±15% of the initial value
D.F. (tan δ)	≤ 150% of the initial specified value
Leakage current	≤ The initial specified value

## Dimensions [mm]

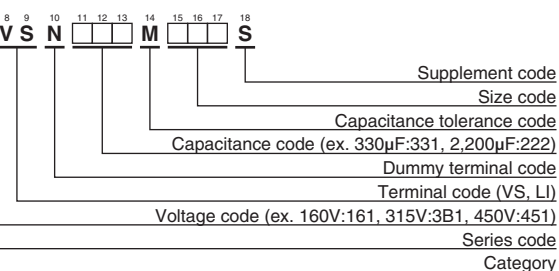
Terminal code : VS (φ22 to φ35) : Standard



Terminal Code : LI (φ30, φ35)



## MARKING SYSTEM



Product code guide (snap-in type)"

# LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Long life snap-ins, 105°C

Series

## DC RATINGS

Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
22 × 25	0.15	1.32	ELXQ161VSN391MP25S	200	1,200	30 × 50	0.15	2.88	ELXQ201VSN122MR50S
22 × 30	0.15	1.66	ELXQ161VSN561MP30S		1,200	35 × 35	0.15	2.88	ELXQ201VSN122MA35S
22 × 40	0.15	1.68	ELXQ161VSN561MQ25S		1,500	35 × 40	0.15	3.34	ELXQ201VSN152MA40S
22 × 35	0.15	1.87	ELXQ161VSN681MP35S		1,800	35 × 45	0.15	3.74	ELXQ201VSN182MA45S
22 × 30	0.15	1.88	ELXQ161VSN681MQ30S		1,800	35 × 50	0.15	3.82	ELXQ201VSN182MA50S
30 × 25	0.15	1.96	ELXQ161VSN681MR25S	220	270	22 × 25	0.15	1.10	ELXQ221VSN271MP25S
22 × 40	0.15	2.09	ELXQ161VSN821MP40S		330	22 × 30	0.15	1.19	ELXQ221VSN331MP30S
22 × 45	0.15	2.36	ELXQ161VSN102MP45S		390	25.4 × 25	0.15	1.39	ELXQ221VSN391MQ25S
22 × 50	0.15	2.41	ELXQ161VSN102MP50S		470	22 × 35	0.15	1.55	ELXQ221VSN471MP35S
22 × 35	0.15	2.38	ELXQ161VSN102MQ35S		470	25.4 × 30	0.15	1.56	ELXQ221VSN471MQ30S
30 × 30	0.15	2.40	ELXQ161VSN102MR30S		470	30 × 25	0.15	1.63	ELXQ221VSN471MR25S
35 × 25	0.15	2.55	ELXQ161VSN102MA25S		560	22 × 40	0.15	1.73	ELXQ221VSN561MP40S
22 × 40	0.15	2.66	ELXQ161VSN122MQ40S		560	30 × 30	0.15	1.79	ELXQ221VSN561MR30S
22 × 45	0.15	2.71	ELXQ161VSN122MQ45S		680	22 × 45	0.15	1.94	ELXQ221VSN681MP45S
30 × 35	0.15	2.69	ELXQ161VSN122MR35S		680	22 × 50	0.15	1.99	ELXQ221VSN681MP50S
30 × 40	0.15	2.77	ELXQ161VSN122MR40S		680	25.4 × 35	0.15	1.96	ELXQ221VSN681MQ35S
35 × 30	0.15	2.86	ELXQ161VSN122MA30S		680	30 × 35	0.15	2.02	ELXQ221VSN681MR35S
22 × 50	0.15	3.08	ELXQ161VSN152MQ50S		680	35 × 25	0.15	2.10	ELXQ221VSN681MA25S
30 × 45	0.15	3.17	ELXQ161VSN152MR45S		820	25.4 × 40	0.15	2.20	ELXQ221VSN821MQ40S
35 × 35	0.15	3.22	ELXQ161VSN152MA35S		820	25.4 × 45	0.15	2.24	ELXQ221VSN821MQ45S
30 × 50	0.15	3.53	ELXQ161VSN182MR50S		820	30 × 40	0.15	2.29	ELXQ221VSN821MR40S
35 × 40	0.15	3.66	ELXQ161VSN182MA40S		820	35 × 30	0.15	2.36	ELXQ221VSN821MA30S
35 × 45	0.15	4.14	ELXQ161VSN222MA45S		1,000	25.4 × 50	0.15	2.51	ELXQ221VSN102MQ50S
35 × 50	0.15	4.68	ELXQ161VSN272MA50S		1,000	30 × 45	0.15	2.59	ELXQ221VSN102MR45S
22 × 25	0.15	1.21	ELXQ181VSN331MP25S		1,000	35 × 35	0.15	2.63	ELXQ221VSN102MA35S
22 × 30	0.15	1.52	ELXQ181VSN471MP30S	1,200	30 × 50	0.15	2.88	ELXQ221VSN122MR50S	
22 × 40	0.15	1.52	ELXQ181VSN471MQ25S	1,200	35 × 40	0.15	2.98	ELXQ221VSN122MA40S	
22 × 35	0.15	1.70	ELXQ181VSN561MP35S	1,500	35 × 45	0.15	3.41	ELXQ221VSN152MA45S	
30 × 25	0.15	1.78	ELXQ181VSN561MR25S	1,800	35 × 50	0.15	3.82	ELXQ221VSN182MA50S	
22 × 40	0.15	1.91	ELXQ181VSN681MP40S	250	220	22 × 25	0.15	1.01	ELXQ251VSN221MP25S
22 × 30	0.15	1.88	ELXQ181VSN681MQ30S		270	22 × 30	0.15	1.20	ELXQ251VSN271MP30S
22 × 45	0.15	1.99	ELXQ181VSN821MP45S		330	25.4 × 25	0.15	1.32	ELXQ251VSN331MQ25S
22 × 35	0.15	2.16	ELXQ181VSN821MQ35S		390	22 × 35	0.15	1.44	ELXQ251VSN391MP35S
30 × 30	0.15	2.17	ELXQ181VSN821MR30S		390	25.4 × 30	0.15	1.43	ELXQ251VSN391MQ30S
35 × 25	0.15	2.31	ELXQ181VSN821MA25S		390	30 × 25	0.15	1.51	ELXQ251VSN391MR25S
22 × 50	0.15	2.25	ELXQ181VSN102MP50S		470	22 × 40	0.15	1.62	ELXQ251VSN471MP40S
22 × 40	0.15	2.43	ELXQ181VSN102MQ40S		560	22 × 45	0.15	1.80	ELXQ251VSN561MP45S
22 × 45	0.15	2.47	ELXQ181VSN102MQ45S		560	22 × 50	0.15	1.84	ELXQ251VSN561MP50S
30 × 35	0.15	2.46	ELXQ181VSN102MR35S		560	25.4 × 35	0.15	1.78	ELXQ251VSN561MQ35S
22 × 50	0.15	2.75	ELXQ181VSN122MQ50S		560	30 × 30	0.15	1.83	ELXQ251VSN561MR30S
30 × 40	0.15	2.77	ELXQ181VSN122MR40S		560	35 × 25	0.15	1.91	ELXQ251VSN561MA25S
35 × 30	0.15	2.86	ELXQ181VSN122MA30S		680	25.4 × 40	0.15	2.00	ELXQ251VSN681MQ40S
30 × 45	0.15	3.17	ELXQ181VSN152MR45S		680	25.4 × 45	0.15	2.04	ELXQ251VSN681MQ45S
30 × 50	0.15	3.22	ELXQ181VSN152MR50S		680	30 × 35	0.15	2.06	ELXQ251VSN681MR35S
35 × 35	0.15	3.22	ELXQ181VSN152MA35S		680	35 × 30	0.15	2.15	ELXQ251VSN681MA30S
35 × 40	0.15	3.66	ELXQ181VSN182MA40S		820	25.4 × 50	0.15	2.28	ELXQ251VSN821MQ50S
35 × 45	0.15	3.74	ELXQ181VSN182MA45S		820	30 × 40	0.15	2.33	ELXQ251VSN821MR40S
35 × 50	0.15	4.22	ELXQ181VSN222MA50S		820	30 × 45	0.15	2.39	ELXQ251VSN821MR45S
22 × 25	0.15	1.10	ELXQ201VSN271MP25S		820	35 × 35	0.15	2.38	ELXQ251VSN821MA35S
22 × 30	0.15	1.38	ELXQ201VSN391MP30S	1,000	30 × 50	0.15	2.68	ELXQ251VSN102MR50S	
22 × 40	0.15	1.39	ELXQ201VSN391MQ25S	1,000	35 × 40	0.15	2.72	ELXQ251VSN102MA40S	
22 × 35	0.15	1.55	ELXQ201VSN471MP35S	1,200	35 × 45	0.15	3.05	ELXQ251VSN122MA45S	
22 × 40	0.15	1.73	ELXQ201VSN561MP40S	1,500	35 × 50	0.15	3.49	ELXQ251VSN152MA50S	
22 × 30	0.15	1.71	ELXQ201VSN561MQ30S	315	150	22 × 25	0.15	0.80	ELXQ3B1VSN151MP25S
30 × 25	0.15	1.78	ELXQ201VSN561MR25S		180	22 × 30	0.15	0.92	ELXQ3B1VSN181MP30S
22 × 45	0.15	1.81	ELXQ201VSN681MP45S		180	25.4 × 25	0.15	0.94	ELXQ3B1VSN181MQ25S
22 × 35	0.15	1.87	ELXQ201VSN681MQ35S		220	22 × 35	0.15	1.04	ELXQ3B1VSN221MP35S
30 × 30	0.15	1.98	ELXQ201VSN681MR30S		220	30 × 25	0.15	1.17	ELXQ3B1VSN221MR25S
35 × 25	0.15	2.10	ELXQ201VSN681MA25S		270	22 × 40	0.15	1.18	ELXQ3B1VSN271MP40S
22 × 50	0.15	2.18	ELXQ201VSN821MP50S		270	25.4 × 30	0.15	1.19	ELXQ3B1VSN271MQ30S
22 × 40	0.15	2.09	ELXQ201VSN821MQ40S		330	22 × 45	0.15	1.33	ELXQ3B1VSN331MP45S
30 × 35	0.15	2.22	ELXQ201VSN821MR35S		330	25.4 × 35	0.15	1.37	ELXQ3B1VSN331MQ35S
30 × 40	0.15	2.22	ELXQ201VSN821MR40S		330	30 × 40	0.15	1.41	ELXQ3B1VSN331MR40S
35 × 30	0.15	2.31	ELXQ201VSN821MA30S		330	35 × 30	0.15	1.45	ELXQ3B1VSN331MA30S
35 × 40	0.15	2.40	ELXQ201VSN821MA40S		330	35 × 35	0.15	1.49	ELXQ3B1VSN331MA35S
35 × 50	0.15	2.50	ELXQ201VSN821MA50S		330	35 × 40	0.15	1.53	ELXQ3B1VSN331MA40S
35 × 50	0.15	2.50	ELXQ201VSN821MR50S		330	35 × 45	0.15	1.57	ELXQ3B1VSN331MR45S
35 × 50	0.15	2.50	ELXQ201VSN821MQ50S		330	35 × 50	0.15	1.61	ELXQ3B1VSN331MQ50S

Snap-in

# LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Long life snap-ins, 105°C

Series

## OPERATING RATINGS

Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
30 × 35	0.15	1.71	ELXQ3B1VSN471MR35S	400	470	30 × 45	0.15	1.81	ELXQ401VSN471MR45S
35 × 30	0.15	1.82	ELXQ3B1VSN471MA30S		470	30 × 50	0.15	1.84	ELXQ401VSN471MR50S
30 × 40	0.15	1.88	ELXQ3B1VSN561MQ50S		470	35 × 40	0.15	1.90	ELXQ401VSN471MA40S
30 × 40	0.15	1.92	ELXQ3B1VSN561MR40S		560	35 × 45	0.15	2.12	ELXQ401VSN561MA45S
30 × 45	0.15	1.97	ELXQ3B1VSN561MR45S		680	35 × 50	0.15	2.39	ELXQ401VSN681MA50S
35 × 35	0.15	2.00	ELXQ3B1VSN561MA35S	420	100	22 × 25	0.20	0.66	ELXQ421VSN101MP25S
30 × 50	0.15	2.21	ELXQ3B1VSN681MR50S		120	22 × 30	0.20	0.75	ELXQ421VSN121MP30S
35 × 40	0.15	2.29	ELXQ3B1VSN681MA40S		120	25.4 × 25	0.20	0.77	ELXQ421VSN121MQ25S
35 × 45	0.15	2.57	ELXQ3B1VSN821MA45S		150	22 × 35	0.20	0.86	ELXQ421VSN151MP35S
35 × 50	0.15	2.89	ELXQ3B1VSN102MA50S		180	22 × 40	0.20	0.96	ELXQ421VSN181MP40S
22 × 25	0.15	0.72	ELXQ351VSN121MP25S		180	22 × 45	0.20	0.98	ELXQ421VSN181MP45S
22 × 30	0.15	0.84	ELXQ351VSN151MP30S		180	25.4 × 30	0.20	0.97	ELXQ421VSN181MQ30S
24 × 25	0.15	0.94	ELXQ351VSN181MQ25S		180	25.4 × 35	0.20	1.01	ELXQ421VSN181MQ35S
22 × 35	0.15	1.04	ELXQ351VSN221MP35S		180	30 × 25	0.20	1.02	ELXQ421VSN181MR25S
22 × 40	0.15	1.06	ELXQ351VSN221MP40S		220	22 × 50	0.20	1.11	ELXQ421VSN221MP50S
24 × 30	0.15	1.07	ELXQ351VSN221MQ30S		220	25.4 × 40	0.20	1.14	ELXQ421VSN221MQ40S
30 × 25	0.15	1.13	ELXQ351VSN221MR25S		220	30 × 30	0.20	1.14	ELXQ421VSN221MR30S
22 × 45	0.15	1.20	ELXQ351VSN271MP45S		220	35 × 25	0.20	1.22	ELXQ421VSN221MA25S
24 × 35	0.15	1.24	ELXQ351VSN271MQ35S		270	25.4 × 45	0.20	1.29	ELXQ421VSN271MQ45S
30 × 30	0.15	1.27	ELXQ351VSN271MR30S		270	30 × 35	0.20	1.30	ELXQ421VSN271MR35S
35 × 25	0.15	1.35	ELXQ351VSN271MA25S		270	35 × 30	0.20	1.38	ELXQ421VSN271MA30S
22 × 50	0.15	1.36	ELXQ351VSN331MP50S		330	25.4 × 50	0.20	1.44	ELXQ421VSN331MQ50S
24 × 40	0.15	1.39	ELXQ351VSN331MQ40S		330	30 × 40	0.20	1.48	ELXQ421VSN331MR40S
30 × 35	0.15	1.43	ELXQ351VSN331MR35S		330	35 × 35	0.20	1.54	ELXQ421VSN331MA35S
24 × 45	0.15	1.55	ELXQ351VSN391MQ45S		390	30 × 45	0.20	1.64	ELXQ421VSN391MR45S
30 × 40	0.15	1.60	ELXQ351VSN391MR40S		390	35 × 40	0.20	1.73	ELXQ421VSN391MA40S
35 × 30	0.15	1.66	ELXQ351VSN391MA30S		470	30 × 50	0.20	1.84	ELXQ421VSN471MR50S
24 × 50	0.15	1.72	ELXQ351VSN471MQ50S		470	35 × 45	0.20	1.94	ELXQ421VSN471MA45S
30 × 45	0.15	1.81	ELXQ351VSN471MR45S		560	35 × 50	0.20	2.17	ELXQ421VSN561MA50S
35 × 35	0.15	1.83	ELXQ351VSN471MA35S		450	82	22 × 25	0.20	0.59
30 × 50	0.15	2.00	ELXQ351VSN561MR50S	100		22 × 30	0.20	0.69	ELXQ451VSN101MP30S
35 × 40	0.15	2.07	ELXQ351VSN561MA40S	100		25.4 × 25	0.20	0.70	ELXQ451VSN101MQ25S
35 × 45	0.15	2.34	ELXQ351VSN681MA45S	120		22 × 35	0.20	0.77	ELXQ451VSN121MP35S
35 × 50	0.15	2.62	ELXQ351VSN821MA50S	150		22 × 40	0.20	0.88	ELXQ451VSN151MP40S
22 × 25	0.15	0.66	ELXQ401VSN101MP25S	150		22 × 45	0.20	0.90	ELXQ451VSN151MP45S
22 × 30	0.15	0.75	ELXQ401VSN121MP30S	150		25.4 × 30	0.20	0.88	ELXQ451VSN151MQ30S
22 × 35	0.15	0.86	ELXQ401VSN151MP35S	150		25.4 × 35	0.20	0.92	ELXQ451VSN151MQ35S
24 × 25	0.15	0.86	ELXQ401VSN151MQ25S	150		30 × 25	0.20	0.93	ELXQ451VSN151MR25S
22 × 40	0.15	0.96	ELXQ401VSN181MP40S	180		22 × 50	0.20	1.01	ELXQ451VSN181MP50S
24 × 30	0.15	0.97	ELXQ401VSN181MQ30S	180		25.4 × 40	0.20	1.03	ELXQ451VSN181MQ40S
30 × 25	0.15	1.02	ELXQ401VSN181MR25S	180		30 × 30	0.20	1.03	ELXQ451VSN181MR30S
22 × 45	0.15	1.09	ELXQ401VSN221MP45S	180		35 × 25	0.20	1.10	ELXQ451VSN181MA25S
24 × 35	0.15	1.12	ELXQ401VSN221MQ35S	220		25.4 × 45	0.20	1.16	ELXQ451VSN221MQ45S
35 × 25	0.15	1.22	ELXQ401VSN221MA25S	220		30 × 35	0.20	1.17	ELXQ451VSN221MR35S
22 × 50	0.15	1.23	ELXQ401VSN271MP50S	220		35 × 30	0.20	1.24	ELXQ451VSN221MA30S
24 × 40	0.15	1.26	ELXQ401VSN271MQ40S	270		25.4 × 50	0.20	1.31	ELXQ451VSN271MQ50S
24 × 45	0.15	1.29	ELXQ401VSN271MQ45S	270		30 × 40	0.20	1.33	ELXQ451VSN271MR40S
30 × 30	0.15	1.27	ELXQ401VSN271MR30S	270		35 × 35	0.20	1.39	ELXQ451VSN271MA35S
24 × 50	0.15	1.44	ELXQ401VSN331MQ50S	330		30 × 45	0.20	1.51	ELXQ451VSN331MR45S
30 × 35	0.15	1.43	ELXQ401VSN331MR35S	390		30 × 50	0.20	1.67	ELXQ451VSN391MR50S
35 × 30	0.15	1.52	ELXQ401VSN331MA30S	390		35 × 40	0.20	1.73	ELXQ451VSN391MA40S
30 × 40	0.15	1.60	ELXQ401VSN391MR40S	390		35 × 45	0.20	1.77	ELXQ451VSN391MA45S
35 × 35	0.15	1.67	ELXQ401VSN391MA35S	470		35 × 50	0.20	1.98	ELXQ451VSN471MA50S

## TEMPERATURE MULTIPLIERS

Multipliers

50	120	300	1k	10k	50k
0.81	1.00	1.17	1.32	1.45	1.50
0.77	1.00	1.16	1.30	1.41	1.43

Capacitor lifetime is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.

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[107CKR010M](#) [107CKH063MSA](#) [RJH-25V222MI9#](#) [RJH-35V221MG5#](#) [B43827A1106M8](#) [RJH-50V221MH6#](#) [EKYA500ELL470MF11D](#)  
[B41022A5686M6](#) [ESRG250ELL101MH09D](#) [EKMA160EC3101MF07D](#) [RJB-10V471MG3#](#) [ESMG160ETD221MF11D](#)  
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[RXW471M1ESA-0815](#) [ELXZ630ELL221MJ25S](#) [ERR1HM1R0D11OT](#) [LPE681M30060FVA](#) [LPL471M22030FVA](#) [HFE221M25030FVA](#)  
[LKMD1401H221MF](#) [B41888G6108M000](#) [EKMA160ETD470MF07D](#) [UHW1J102MHD6](#) [EKMG500ETD221MJC5S](#) [LKMK2502W101MF](#)  
[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)  
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)