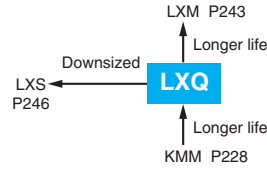


LXQ Series

- Endurance with ripple current : 5,000 hours at 105°C
- Downsized and higher ripple version of LXG series
- Non solvent resistant type
- RoHS Compliant

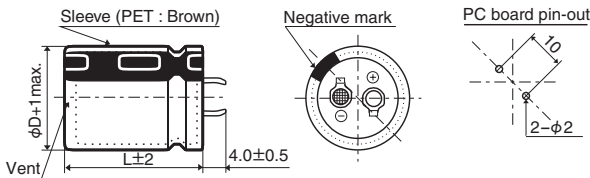


◆ SPECIFICATIONS

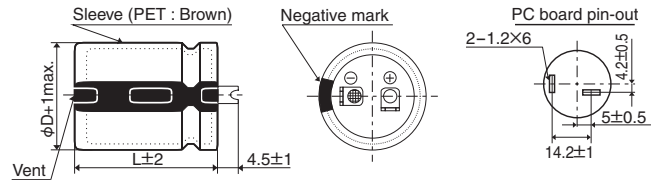
Items	Characteristics		
Category	Temperature Range		
Temperature Range	-25 to +105°C		
Rated Voltage Range	160 to 450V _{dc}		
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)		
Leakage Current	I ≤ 3√CV Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 5 minutes)		
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	160 to 400V	420 & 450V
	tanδ (Max.)	0.15	0.20
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	160 to 400V	420 & 450V
	Z(-25°C)/Z(+20°C)	4	8
Endurance	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. (tanδ)	≤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 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. (tanδ)	≤150% of the initial specified value	
	Leakage current	≤The initial specified value	

◆ DIMENSIONS [mm]

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

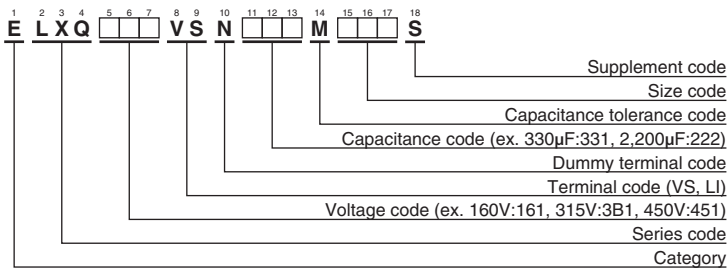


● Terminal Code : LI (φ30, φ35)



The standard design has no plastic disc.

◆ PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

WV (Vdc)	Cap (µF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/105°C,120Hz)	Part No.	WV (Vdc)	Cap (µF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/105°C,120Hz)	Part No.	
315	470	30×35	0.15	1.71	ELXQ3B1VSN471MR35S	400	470	30×45	0.15	1.81	ELXQ401VSN471MR45S	
	470	35×30	0.15	1.82	ELXQ3B1VSN471MA30S		470	30×50	0.15	1.84	ELXQ401VSN471MR50S	
	560	25.4×50	0.15	1.88	ELXQ3B1VSN561MQ50S		470	35×40	0.15	1.90	ELXQ401VSN471MA40S	
	560	30×40	0.15	1.92	ELXQ3B1VSN561MR40S		560	35×45	0.15	2.12	ELXQ401VSN561MA45S	
	560	30×45	0.15	1.97	ELXQ3B1VSN561MR45S		680	35×50	0.15	2.39	ELXQ401VSN681MA50S	
	560	35×35	0.15	2.00	ELXQ3B1VSN102MA50S		420	100	22×25	0.20	0.66	ELXQ421VSN101MP25S
	680	30×50	0.15	2.21	ELXQ3B1VSN681MR50S			120	22×30	0.20	0.75	ELXQ421VSN121MP30S
	680	35×40	0.15	2.29	ELXQ3B1VSN681MA40S			120	25.4×25	0.20	0.77	ELXQ421VSN121MQ25S
	820	35×45	0.15	2.57	ELXQ3B1VSN821MA45S			150	22×35	0.20	0.86	ELXQ421VSN151MP35S
1,000	35×50	0.15	2.89	ELXQ3B1VSN102MA50S	180	22×40		0.20	0.96	ELXQ421VSN181MP40S		
350	120	22×25	0.15	0.72	ELXQ351VSN121MP25S	180		22×45	0.20	0.98	ELXQ421VSN181MP45S	
	150	22×30	0.15	0.84	ELXQ351VSN151MP30S	180		25.4×30	0.20	0.97	ELXQ421VSN181MQ30S	
	180	25.4×25	0.15	0.94	ELXQ351VSN181MQ25S	180		25.4×35	0.20	1.01	ELXQ421VSN181MQ35S	
	220	22×35	0.15	1.04	ELXQ351VSN221MP35S	180		30×25	0.20	1.02	ELXQ421VSN181MP25S	
	220	22×40	0.15	1.06	ELXQ351VSN221MP40S	220		22×50	0.20	1.11	ELXQ421VSN221MP50S	
	220	25.4×30	0.15	1.07	ELXQ351VSN221MQ30S	220		25.4×40	0.20	1.14	ELXQ421VSN221MQ40S	
	220	30×25	0.15	1.13	ELXQ351VSN221MR25S	220		30×30	0.20	1.14	ELXQ421VSN221MR30S	
	270	22×45	0.15	1.20	ELXQ351VSN271MP45S	220		35×25	0.20	1.22	ELXQ421VSN221MA25S	
	270	25.4×35	0.15	1.24	ELXQ351VSN271MQ35S	270		25.4×45	0.20	1.29	ELXQ421VSN271MQ45S	
	270	30×30	0.15	1.27	ELXQ351VSN271MR30S	270		30×35	0.20	1.30	ELXQ421VSN271MR35S	
	270	35×25	0.15	1.35	ELXQ351VSN271MA25S	270		35×30	0.20	1.38	ELXQ421VSN271MA30S	
	330	22×50	0.15	1.36	ELXQ351VSN331MP50S	330		25.4×50	0.20	1.44	ELXQ421VSN331MQ50S	
	330	25.4×40	0.15	1.39	ELXQ351VSN331MQ40S	330		30×40	0.20	1.48	ELXQ421VSN331MP40S	
	330	30×35	0.15	1.43	ELXQ351VSN331MR35S	330		35×35	0.20	1.54	ELXQ421VSN331MA35S	
	390	25.4×45	0.15	1.55	ELXQ351VSN391MQ45S	390		30×45	0.20	1.64	ELXQ421VSN391MR45S	
	390	30×40	0.15	1.60	ELXQ351VSN391MR40S	390		35×40	0.20	1.73	ELXQ421VSN391MA40S	
	390	35×30	0.15	1.66	ELXQ351VSN391MA30S	470	30×50	0.20	1.84	ELXQ421VSN471MR50S		
	470	25.4×50	0.15	1.72	ELXQ351VSN471MQ50S	470	35×45	0.20	1.94	ELXQ421VSN471MA45S		
	470	30×45	0.15	1.81	ELXQ351VSN471MR45S	560	35×50	0.20	2.17	ELXQ421VSN561MA50S		
	470	35×35	0.15	1.83	ELXQ351VSN471MA35S	450	82	22×25	0.20	0.59	ELXQ451VSN820MP25S	
	560	30×50	0.15	2.00	ELXQ351VSN561MR50S		100	22×30	0.20	0.69	ELXQ451VSN101MP30S	
560	35×40	0.15	2.07	ELXQ351VSN561MA40S	100		25.4×25	0.20	0.70	ELXQ451VSN101MQ25S		
680	35×45	0.15	2.34	ELXQ351VSN681MA45S	120		22×35	0.20	0.77	ELXQ451VSN121MP35S		
820	35×50	0.15	2.62	ELXQ351VSN821MA50S	150		22×40	0.20	0.88	ELXQ451VSN151MP40S		
400	100	22×25	0.15	0.66	ELXQ401VSN101MP25S		150	22×45	0.20	0.90	ELXQ451VSN151MP45S	
	120	22×30	0.15	0.75	ELXQ401VSN121MP30S		150	25.4×30	0.20	0.88	ELXQ451VSN151MQ30S	
	150	22×35	0.15	0.86	ELXQ401VSN151MP35S		150	25.4×35	0.20	0.92	ELXQ451VSN151MQ35S	
	150	25.4×25	0.15	0.86	ELXQ401VSN151MQ25S		150	30×25	0.20	0.93	ELXQ451VSN151MR25S	
	180	22×40	0.15	0.96	ELXQ401VSN181MP40S		180	22×50	0.20	1.01	ELXQ451VSN181MP50S	
	180	25.4×30	0.15	0.97	ELXQ401VSN181MQ30S		180	25.4×40	0.20	1.03	ELXQ451VSN181MQ40S	
	180	30×25	0.15	1.02	ELXQ401VSN181MR25S		180	30×30	0.20	1.03	ELXQ451VSN181MR30S	
	220	22×45	0.15	1.09	ELXQ401VSN221MP45S		180	35×25	0.20	1.10	ELXQ451VSN181MA25S	
	220	25.4×35	0.15	1.12	ELXQ401VSN221MQ35S		220	25.4×45	0.20	1.16	ELXQ451VSN221MQ45S	
	220	35×25	0.15	1.22	ELXQ401VSN221MA25S		220	30×35	0.20	1.17	ELXQ451VSN221MR35S	
	270	22×50	0.15	1.23	ELXQ401VSN271MP50S		220	35×30	0.20	1.24	ELXQ451VSN221MA30S	
	270	25.4×40	0.15	1.26	ELXQ401VSN271MQ40S		270	25.4×50	0.20	1.31	ELXQ451VSN271MQ50S	
	270	25.4×45	0.15	1.29	ELXQ401VSN271MQ45S		270	30×40	0.20	1.33	ELXQ451VSN271MR40S	
	270	30×30	0.15	1.27	ELXQ401VSN271MR30S		270	35×35	0.20	1.39	ELXQ451VSN271MA35S	
	330	25.4×50	0.15	1.44	ELXQ401VSN331MQ50S		330	30×45	0.20	1.51	ELXQ451VSN331MR45S	
	330	30×35	0.15	1.43	ELXQ401VSN331MR35S		390	30×50	0.20	1.67	ELXQ451VSN391MR50S	
	330	35×30	0.15	1.52	ELXQ401VSN331MA30S	390	35×40	0.20	1.73	ELXQ451VSN391MA40S		
	390	30×40	0.15	1.60	ELXQ401VSN391MR40S	390	35×45	0.20	1.77	ELXQ451VSN391MA45S		
	390	35×35	0.15	1.67	ELXQ401VSN391MA35S	470	35×50	0.20	1.98	ELXQ451VSN471MA50S		

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	50	120	300	1k	10k	50k
160 to 250V _{dc}	0.81	1.00	1.17	1.32	1.45	1.50
315 to 450V _{dc}	0.77	1.00	1.16	1.30	1.41	1.43

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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