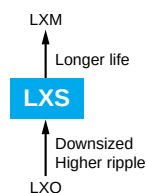


LXS Series

- Endurance with ripple current : 5,000 hours at 105°C
- Downsized from LXQ series
- Non solvent resistant type
- RoHS Compliant

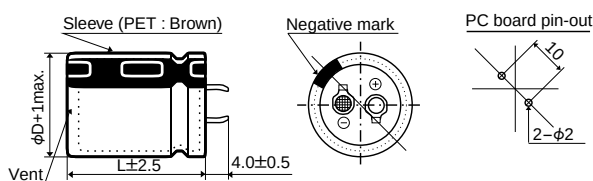


SPECIFICATIONS

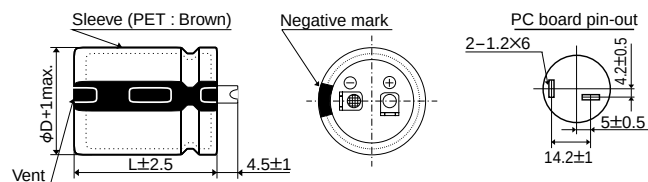
Items	Characteristics		
Category	Temperature Range		
Temperature Range	-25 to +105°C		
Rated Voltage Range	160 to 450V _{dc}		
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)		
Leakage Current	I≤3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after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

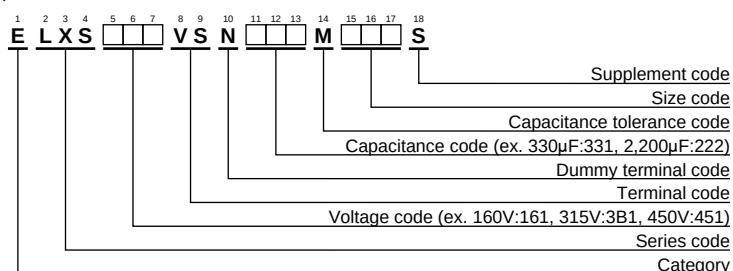


●Terminal Code : LI (φ30, φ35)



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.
160	470	22×25	0.15	1.47	ELXS161VSN471MP25S	200	1,500	35×35	0.15	3.36	ELXS201VSN152MA35S
	680	22×30	0.15	1.86	ELXS161VSN681MP30S		1,800	30×50	0.15	3.72	ELXS201VSN182MR50S
	680	25.4×25	0.15	1.84	ELXS161VSN681MQ25S		1,800	35×40	0.15	3.81	ELXS201VSN182MA40S
	820	22×35	0.15	2.09	ELXS161VSN821MP35S		2,200	35×45	0.15	4.32	ELXS201VSN222MA45S
	820	25.4×30	0.15	2.08	ELXS161VSN821MQ30S		2,700	35×50	0.15	4.88	ELXS201VSN272MA50S
	1,000	22×40	0.15	2.35	ELXS161VSN102MP40S	250	270	22×25	0.15	1.11	ELXS251VSN271MP25S
	1,000	22×45	0.15	2.40	ELXS161VSN102MP45S		330	22×30	0.15	1.29	ELXS251VSN331MP30S
	1,000	25.4×35	0.15	2.40	ELXS161VSN102MQ35S		390	22×35	0.15	1.44	ELXS251VSN391MP35S
	1,000	30×25	0.15	2.50	ELXS161VSN102MR25S		390	25.4×25	0.15	1.40	ELXS251VSN391MQ25S
	1,200	22×50	0.15	2.69	ELXS161VSN122MP50S		470	22×40	0.15	1.61	ELXS251VSN471MP40S
	1,200	25.4×40	0.15	2.68	ELXS161VSN122MQ40S		470	25.4×30	0.15	1.57	ELXS251VSN471MQ30S
	1,200	30×30	0.15	2.77	ELXS161VSN122MR30S		560	22×45	0.15	1.79	ELXS251VSN561MP45S
	1,200	35×25	0.15	2.91	ELXS161VSN122MA25S		560	25.4×35	0.15	1.79	ELXS251VSN561MQ35S
	1,500	25.4×45	0.15	3.05	ELXS161VSN122MA45S		560	30×25	0.15	1.87	ELXS251VSN561MP25S
	1,500	30×35	0.15	3.17	ELXS161VSN152MR35S		680	22×50	0.15	2.02	ELXS251VSN681MP50S
	1,800	25.4×50	0.15	3.40	ELXS161VSN182MQ50S		680	25.4×40	0.15	2.02	ELXS251VSN681MQ40S
	1,800	30×40	0.15	3.57	ELXS161VSN182MR40S		680	30×30	0.15	2.08	ELXS251VSN681MR30S
	1,800	35×30	0.15	3.62	ELXS161VSN182MA30S		680	35×25	0.15	2.19	ELXS251VSN681MA25S
	2,200	30×45	0.15	4.05	ELXS161VSN222MR45S		820	25.4×45	0.15	2.26	ELXS251VSN821MQ45S
	2,200	30×50	0.15	4.11	ELXS161VSN222MR50S		820	25.4×50	0.15	2.29	ELXS251VSN821MQ50S
	2,200	35×35	0.15	4.07	ELXS161VSN222MA35S		820	30×35	0.15	2.34	ELXS251VSN821MR35S
	2,700	35×40	0.15	4.67	ELXS161VSN272MA40S		820	35×30	0.15	2.45	ELXS251VSN821MA30S
	2,700	35×45	0.15	4.78	ELXS161VSN272MA45S	315	1,000	30×40	0.15	2.66	ELXS251VSN102MR40S
180	3,300	35×50	0.15	5.40	ELXS161VSN332MA50S		1,200	30×45	0.15	2.99	ELXS251VSN122MR45S
	390	22×25	0.15	1.34	ELXS181VSN391MP25S		1,200	30×50	0.15	3.04	ELXS251VSN122MR50S
	560	22×30	0.15	1.68	ELXS181VSN561MP30S		1,200	35×35	0.15	3.00	ELXS251VSN122MA35S
	560	25.4×25	0.15	1.67	ELXS181VSN561MQ25S		1,200	35×40	0.15	3.11	ELXS251VSN122MA40S
	680	22×35	0.15	1.90	ELXS181VSN681MP35S		1,500	35×45	0.15	3.56	ELXS251VSN152MA45S
	820	22×40	0.15	2.13	ELXS181VSN821MP40S		1,800	35×50	0.15	3.98	ELXS251VSN182MA50S
	820	25.4×30	0.15	2.08	ELXS181VSN821MQ30S		180	22×25	0.15	0.95	ELXS3B1VSN181MP25S
	820	25.4×35	0.15	2.17	ELXS181VSN821MQ35S		220	22×30	0.15	1.10	ELXS3B1VSN221MP30S
	820	30×25	0.15	2.26	ELXS181VSN821MR25S		220	25.4×25	0.15	1.10	ELXS3B1VSN221MQ25S
	1,000	22×45	0.15	2.40	ELXS181VSN102MP45S		270	22×35	0.15	1.24	ELXS3B1VSN271MP35S
	1,000	22×50	0.15	2.45	ELXS181VSN102MP50S		270	25.4×30	0.15	1.25	ELXS3B1VSN271MQ30S
	1,000	25.4×40	0.15	2.45	ELXS181VSN102MQ40S		330	22×40	0.15	1.40	ELXS3B1VSN331MP40S
	1,000	30×30	0.15	2.52	ELXS181VSN102MR30S		330	30×25	0.15	1.43	ELXS3B1VSN331MR25S
	1,000	35×25	0.15	2.66	ELXS181VSN102MA25S		390	22×45	0.15	1.56	ELXS3B1VSN391MP45S
	1,200	25.4×45	0.15	2.73	ELXS181VSN122MQ45S		390	22×50	0.15	1.59	ELXS3B1VSN391MP50S
	1,200	30×35	0.15	2.83	ELXS181VSN122MR35S		390	25.4×35	0.15	1.57	ELXS3B1VSN391MQ35S
	1,500	25.4×50	0.15	3.10	ELXS181VSN152MQ50S		470	25.4×40	0.15	1.76	ELXS3B1VSN471MQ40S
	1,500	30×40	0.15	3.26	ELXS181VSN152MR40S		470	25.4×45	0.15	1.79	ELXS3B1VSN471MQ45S
	1,500	35×30	0.15	3.31	ELXS181VSN152MA30S		470	30×30	0.15	1.73	ELXS3B1VSN471MR30S
	1,800	30×45	0.15	3.66	ELXS181VSN182MR45S	400	470	35×25	0.15	1.82	ELXS3B1VSN471MA25S
200	1,800	35×35	0.15	3.68	ELXS181VSN182MA35S		560	25.4×50	0.15	1.99	ELXS3B1VSN561MQ50S
	2,200	30×50	0.15	4.11	ELXS181VSN222MR50S		560	30×35	0.15	1.93	ELXS3B1VSN561MR35S
	2,200	35×40	0.15	4.22	ELXS181VSN222MA40S		560	35×30	0.15	2.02	ELXS3B1VSN561MA30S
	2,200	35×45	0.15	4.32	ELXS181VSN222MA45S		680	30×40	0.15	2.19	ELXS3B1VSN681MQ40S
	2,700	35×50	0.15	4.88	ELXS181VSN272MA50S		680	30×45	0.15	2.25	ELXS3B1VSN681MR45S
	390	22×25	0.15	1.34	ELXS201VSN391MP25S		680	35×35	0.15	2.26	ELXS3B1VSN681MA35S
	470	22×30	0.15	1.54	ELXS201VSN471MP30S		820	30×50	0.15	2.51	ELXS3B1VSN821MR50S
	560	22×35	0.15	1.72	ELXS201VSN561MP35S		820	35×40	0.15	2.57	ELXS3B1VSN821MQ40S
	560	25.4×25	0.15	1.67	ELXS201VSN561MQ25S		1,000	35×45	0.15	2.91	ELXS3B1VSN102MA45S
	680	22×40	0.15	1.94	ELXS201VSN681MP40S		1,200	35×50	0.15	3.25	ELXS3B1VSN122MA50S
	680	25.4×30	0.15	1.89	ELXS201VSN681MQ30S		120	22×25	0.15	0.77	ELXS401VSN121MP25S
	680	30×25	0.15	2.06	ELXS201VSN681MR25S		150	22×30	0.15	0.90	ELXS401VSN151MP30S
	820	22×45	0.15	2.17	ELXS201VSN821MP45S		180	22×35	0.15	1.02	ELXS401VSN181MP35S
	820	25.4×35	0.15	2.17	ELXS201VSN821MQ35S		180	25.4×25	0.15	0.99	ELXS401VSN181MQ25S
	1,000	22×50	0.15	2.45	ELXS201VSN102MP50S		220	22×40	0.15	1.15	ELXS401VSN221MP40S
	1,000	25.4×40	0.15	2.45	ELXS201VSN102MQ40S		220	25.4×30	0.15	1.13	ELXS401VSN221MQ30S
	1,000	30×30	0.15	2.52	ELXS201VSN102MR30S		220	30×25	0.15	1.17	ELXS401VSN221MR25S
	1,000	35×25	0.15	2.66	ELXS201VSN102MA25S		270	22×45	0.15	1.29	ELXS401VSN271MP45S
	1,200	25.4×45	0.15	2.73	ELXS201VSN122MQ45S		270	22×50	0.15	1.32	ELXS401VSN271MP50S
	1,200	25.4×50	0.15	2.78	ELXS201VSN122MQ50S		270	25.4×35	0.15	1.30	ELXS401VSN271MQ35S
	1,200	30×35	0.15	2.83	ELXS201VSN122MR35S		330	25.4×40	0.15	1.47	ELXS401VSN331MQ40S
	1,200	35×30	0.15	2.96	ELXS201VSN122MA30S		330	30×30	0.15	1.45	ELXS401VSN331MR30S
	1,500	30×40	0.15	3.26	ELXS201VSN152MR40S		330	35×25	0.15	1.52	ELXS401VSN331MA25S
	1,500	30×45	0.15	3.34	ELXS201VSN152MR45S		390	25.4×45	0.15	1.63	ELXS401VSN391MQ45S

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105°C,120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105°C,120Hz)	Part No.
400	390	25.4×50	0.15	1.66	ELXS401VSN391MQ50S	420	390	35×35	0.20	1.71	ELXS421VSN391MA35S
	390	30×35	0.15	1.61	ELXS401VSN391MR35S		470	30×50	0.20	1.90	ELXS421VSN471MR50S
	390	35×30	0.15	1.68	ELXS401VSN391MA30S		470	35×40	0.20	1.95	ELXS421VSN471MA40S
	470	30×40	0.15	1.82	ELXS401VSN471MR40S		560	35×45	0.20	2.17	ELXS421VSN561MA45S
	470	35×35	0.15	1.88	ELXS401VSN471MA35S		680	35×50	0.20	2.45	ELXS421VSN681MA50S
	560	30×45	0.15	2.04	ELXS401VSN561MR45S	450	82	22×25	0.20	0.64	ELXS451VSN820MP25S
	560	30×50	0.15	2.07	ELXS401VSN561MR50S		120	22×30	0.20	0.81	ELXS451VSN121MP30S
	560	35×40	0.15	2.13	ELXS401VSN561MA40S		120	22×35	0.20	0.83	ELXS451VSN121MP35S
	680	35×45	0.15	2.40	ELXS401VSN681MA45S		120	25.4×25	0.20	0.81	ELXS451VSN121MQ25S
	820	35×50	0.15	2.69	ELXS401VSN821MA50S		150	22×40	0.20	0.94	ELXS451VSN151MP40S
420	100	22×25	0.20	0.70	ELXS421VSN101MP25S		150	25.4×30	0.20	0.93	ELXS451VSN151MQ30S
	120	22×30	0.20	0.81	ELXS421VSN121MP30S		180	22×45	0.20	1.06	ELXS451VSN181MP45S
	120	25.4×25	0.20	0.81	ELXS421VSN121MQ25S		180	25.4×35	0.20	1.06	ELXS451VSN181MQ35S
	150	22×35	0.20	0.93	ELXS421VSN151MP35S		180	30×25	0.20	1.06	ELXS451VSN181MR25S
	180	22×40	0.20	1.04	ELXS421VSN181MP40S		220	22×50	0.20	1.20	ELXS451VSN221MP50S
	180	25.4×30	0.20	1.02	ELXS421VSN181MQ30S		220	25.4×40	0.20	1.20	ELXS451VSN221MQ40S
	180	30×25	0.20	1.06	ELXS421VSN181MR25S		220	30×30	0.20	1.18	ELXS451VSN221MR30S
	220	22×45	0.20	1.17	ELXS421VSN221MP45S		220	35×25	0.20	1.24	ELXS451VSN221MA25S
	220	22×50	0.20	1.20	ELXS421VSN221MP50S		270	25.4×45	0.20	1.36	ELXS451VSN271MQ45S
	220	25.4×35	0.20	1.18	ELXS421VSN221MQ35S		270	25.4×50	0.20	1.38	ELXS451VSN271MQ50S
	270	25.4×40	0.20	1.33	ELXS421VSN271MQ40S		270	30×35	0.20	1.34	ELXS451VSN271MR35S
	270	25.4×45	0.20	1.36	ELXS421VSN271MQ45S		270	35×30	0.20	1.40	ELXS451VSN271MA30S
	270	30×30	0.20	1.31	ELXS421VSN271MR30S		330	30×40	0.20	1.52	ELXS451VSN331MR40S
	270	35×25	0.20	1.38	ELXS421VSN271MA25S		390	30×45	0.20	1.70	ELXS451VSN391MR45S
	330	25.4×50	0.20	1.52	ELXS421VSN331MQ50S		390	30×50	0.20	1.73	ELXS451VSN391MR50S
	330	30×35	0.20	1.48	ELXS421VSN331MR35S		390	35×35	0.20	1.71	ELXS451VSN391MA35S
	330	35×30	0.20	1.55	ELXS421VSN331MA30S		470	35×40	0.20	1.95	ELXS451VSN471MA40S
	390	30×40	0.20	1.66	ELXS421VSN391MR40S		470	35×45	0.20	1.99	ELXS451VSN471MA45S
	390	30×45	0.20	1.70	ELXS421VSN391MR45S		560	35×50	0.20	2.22	ELXS451VSN561MA50S

◆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.

Mouser Electronics

Authorized Distributor

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ELXS451VSN221MQ40S	ELXS401VSN181MQ25S	ELXS451VSN561MA50S	ELXS401VSN471MR40S
ELXS251VSN821MA30S	ELXS251VSN182MA50S	ELXS3B1VSN122MA50S	ELXS451VSN221MA25S
ELXS3B1VSN102MA45S	ELXS401VSN221MQ30S	ELXS451VSN151MQ30S	ELXS401VSN331MQ40S
ELXS401VSN331MR30S	ELXS401VSN331MA25S	ELXS421VSN561MA45S	ELXS451VSN391MR45S
ELXS451VSN271MA30S	ELXS451VSN121MP30S	ELXS161VSN222MR50S	ELXS161VSN102MP40S
ELXS161VSN102MR25S	ELXS161VSN122MR30S	ELXS161VSN152MQ45S	ELXS161VSN182MA30S
ELXS161VSN222MA35S	ELXS161VSN222MR45S	ELXS161VSN272MA40S	ELXS161VSN332MA50S
ELXS161VSN471MP25S	ELXS161VSN681MQ25S	ELXS181VSN391MP25S	ELXS181VSN561MP30S
ELXS181VSN561MQ25S	ELXS181VSN821MQ30S	ELXS181VSN821MR25S	ELXS201VSN102MP50S
ELXS201VSN102MQ40S	ELXS201VSN102MR30S	ELXS201VSN122MQ45S	ELXS201VSN122MQ50S
ELXS201VSN122MR35S	ELXS201VSN182MR50S	ELXS201VSN222MA45S	ELXS201VSN272MA50S
ELXS201VSN391MP25S	ELXS201VSN471MP30S	ELXS201VSN561MP35S	ELXS201VSN561MQ25S
ELXS201VSN681MQ30S	ELXS201VSN821MP45S	ELXS251VSN102MR40S	ELXS251VSN122MR45S
ELXS251VSN152MA45S	ELXS251VSN271MP25S	ELXS251VSN331MP30S	ELXS251VSN391MP35S
ELXS251VSN391MQ25S	ELXS251VSN471MP40S	ELXS251VSN471MQ30S	ELXS251VSN561MR25S
ELXS251VSN681MP50S	ELXS251VSN681MR30S	ELXS251VSN821MQ50S	ELXS3B1VSN181MP25S
ELXS3B1VSN221MP30S	ELXS3B1VSN221MQ25S	ELXS3B1VSN271MQ30S	ELXS3B1VSN331MP40S
ELXS3B1VSN471MQ40S	ELXS3B1VSN681MR40S	ELXS3B1VSN821MR50S	ELXS401VSN121MP25S
ELXS401VSN151MP30S	ELXS401VSN181MP35S	ELXS401VSN221MP40S	ELXS401VSN271MP45S
ELXS401VSN391MQ50S	ELXS401VSN561MR45S	ELXS401VSN681MA45S	ELXS401VSN821MA50S
ELXS421VSN101MP25S	ELXS421VSN121MP30S	ELXS421VSN121MQ25S	ELXS421VSN151MP35S
ELXS421VSN181MQ30S	ELXS421VSN331MQ50S	ELXS421VSN681MA50S	ELXS451VSN121MQ25S
ELXS451VSN151MP40S	ELXS451VSN181MP45S	ELXS451VSN181MQ35S	ELXS451VSN181MR25S
ELXS451VSN221MP50S	ELXS451VSN221MR30S	ELXS451VSN271MQ45S	ELXS451VSN331MR40S
ELXS451VSN391MA35S	ELXS451VSN391MR50S	ELXS451VSN471MA40S	ELXS451VSN820MP25S