LXS Series

- For solar power generation
- Endurance with ripple current : 5,000 hours at 105℃
- Rated voltage range : 160 to 500V
- Downsized from LXQ series
- Non solvent resistant type
- RoHS Compliant

LXM P264
↑ Longer life
LXS
↓ Downsized Higher ripple
LXQ P270

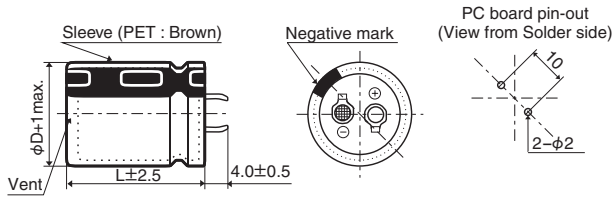
500V Lineup!

◆SPECIFICATIONS

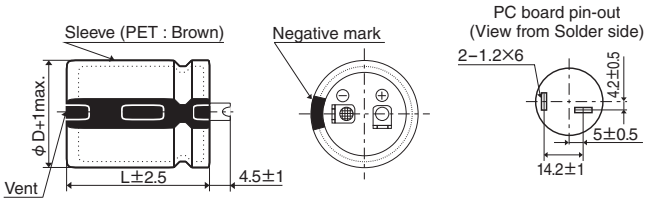
Items	Characteristics			
Category Temperature Range	-25 to +105℃			
Rated Voltage Range	160 to 500Vdc			
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)			(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (Vdc)	160 to 400V	420 to 500V	
	tan δ (Max.)	0.15	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	160 to 400V	420 to 500V	
	Z(-25℃)/Z(+20℃)	4	8	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ 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℃.			
	Capacitance change	≦±20% of the initial value		
	D.F. (tan δ)	≦200% of the initial specified value (500Vdc : ≦ 250%)		
	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 1,000 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	≦±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

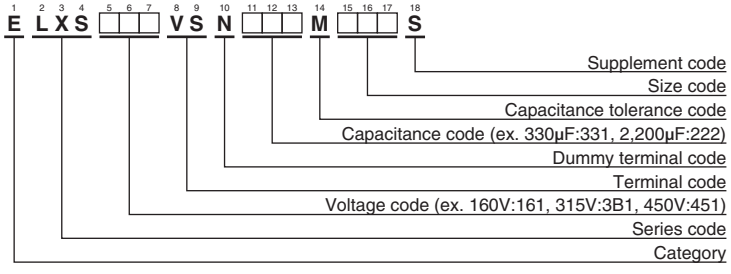


●Terminal Code : LI (φ30, φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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

LXS Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
160	470	22 × 25	0.15	1.47	ELXS161VSN471MP25S
	680	22 × 30	0.15	1.86	ELXS161VSN681MP30S
	680	25.4 × 25	0.15	1.84	ELXS161VSN681MQ25S
	820	22 × 35	0.15	2.09	ELXS161VSN821MP35S
	820	25.4 × 30	0.15	2.08	ELXS161VSN821MQ30S
	1,000	22 × 40	0.15	2.35	ELXS161VSN102MP40S
	1,000	22 × 45	0.15	2.40	ELXS161VSN102MP45S
	1,000	25.4 × 35	0.15	2.40	ELXS161VSN102MQ35S
	1,000	30 × 25	0.15	2.50	ELXS161VSN102MR25S
	1,200	22 × 50	0.15	2.69	ELXS161VSN122MP50S
	1,200	25.4 × 40	0.15	2.68	ELXS161VSN122MQ40S
	1,200	30 × 30	0.15	2.77	ELXS161VSN122MR30S
	1,200	35 × 25	0.15	2.91	ELXS161VSN122MA25S
	1,500	25.4 × 45	0.15	3.05	ELXS161VSN152MQ45S
	1,500	30 × 35	0.15	3.17	ELXS161VSN152MR35S
	1,800	25.4 × 50	0.15	3.40	ELXS161VSN182MQ50S
	1,800	30 × 40	0.15	3.57	ELXS161VSN182MR40S
	1,800	35 × 30	0.15	3.62	ELXS161VSN182MA30S
	2,200	30 × 45	0.15	4.05	ELXS161VSN222MR45S
	2,200	30 × 50	0.15	4.11	ELXS161VSN222MR50S
	2,200	35 × 35	0.15	4.07	ELXS161VSN222MA35S
	2,700	35 × 40	0.15	4.67	ELXS161VSN272MA40S
	2,700	35 × 45	0.15	4.78	ELXS161VSN272MA45S
	3,300	35 × 50	0.15	5.40	ELXS161VSN332MA50S
180	390	22 × 25	0.15	1.34	ELXS181VSN391MP25S
	560	22 × 30	0.15	1.68	ELXS181VSN561MP30S
	560	25.4 × 25	0.15	1.67	ELXS181VSN561MQ25S
	680	22 × 35	0.15	1.90	ELXS181VSN681MP35S
	820	22 × 40	0.15	2.13	ELXS181VSN821MP40S
	820	25.4 × 30	0.15	2.08	ELXS181VSN821MQ30S
	820	25.4 × 35	0.15	2.17	ELXS181VSN821MQ35S
	820	30 × 25	0.15	2.26	ELXS181VSN821MR25S
	1,000	22 × 45	0.15	2.40	ELXS181VSN102MP45S
	1,000	22 × 50	0.15	2.45	ELXS181VSN102MP50S
	1,000	25.4 × 40	0.15	2.45	ELXS181VSN102MQ40S
	1,000	30 × 30	0.15	2.52	ELXS181VSN102MR30S
	1,000	35 × 25	0.15	2.66	ELXS181VSN102MA25S
	1,200	25.4 × 45	0.15	2.73	ELXS181VSN122MQ45S
	1,200	30 × 35	0.15	2.83	ELXS181VSN122MR35S
	1,500	25.4 × 50	0.15	3.10	ELXS181VSN152MQ50S
	1,500	30 × 40	0.15	3.26	ELXS181VSN152MR40S
	1,500	35 × 30	0.15	3.31	ELXS181VSN152MA30S
	1,800	30 × 45	0.15	3.66	ELXS181VSN182MR45S
	1,800	35 × 35	0.15	3.68	ELXS181VSN182MA35S
	2,200	30 × 50	0.15	4.11	ELXS181VSN222MR50S
	2,200	35 × 40	0.15	4.22	ELXS181VSN222MA40S
	2,200	35 × 45	0.15	4.32	ELXS181VSN222MA45S
	2,700	35 × 50	0.15	4.88	ELXS181VSN272MA50S
200	390	22 × 25	0.15	1.34	ELXS201VSN391MP25S
	470	22 × 30	0.15	1.54	ELXS201VSN471MP30S
	560	22 × 35	0.15	1.72	ELXS201VSN561MP35S
	560	25.4 × 25	0.15	1.67	ELXS201VSN561MQ25S
	680	22 × 40	0.15	1.94	ELXS201VSN681MP40S
	680	25.4 × 30	0.15	1.89	ELXS201VSN681MQ30S
	680	30 × 25	0.15	2.06	ELXS201VSN681MR25S
	820	22 × 45	0.15	2.17	ELXS201VSN821MP45S
	820	25.4 × 35	0.15	2.17	ELXS201VSN821MQ35S
	1,000	22 × 50	0.15	2.45	ELXS201VSN102MP50S
	1,000	25.4 × 40	0.15	2.45	ELXS201VSN102MQ40S
	1,000	30 × 30	0.15	2.52	ELXS201VSN102MR30S
	1,000	35 × 25	0.15	2.66	ELXS201VSN102MA25S
	1,200	25.4 × 45	0.15	2.73	ELXS201VSN122MQ45S
	1,200	25.4 × 50	0.15	2.78	ELXS201VSN122MQ50S
	1,200	30 × 35	0.15	2.83	ELXS201VSN122MR35S
	1,200	35 × 30	0.15	2.96	ELXS201VSN122MA30S
	1,500	30 × 40	0.15	3.26	ELXS201VSN152MR40S
	1,500	30 × 45	0.15	3.34	ELXS201VSN152MR45S
200	1,500	35 × 35	0.15	3.36	ELXS201VSN152MA35S
	1,800	30 × 50	0.15	3.72	ELXS201VSN182MR50S
	1,800	35 × 40	0.15	3.81	ELXS201VSN182MA40S
	2,200	35 × 45	0.15	4.32	ELXS201VSN222MA45S
	2,700	35 × 50	0.15	4.88	ELXS201VSN272MA50S
250	270	22 × 25	0.15	1.11	ELXS251VSN271MP25S
	330	22 × 30	0.15	1.29	ELXS251VSN331MP30S
	390	22 × 35	0.15	1.44	ELXS251VSN391MP35S
	390	25.4 × 25	0.15	1.40	ELXS251VSN391MQ25S
	470	22 × 40	0.15	1.61	ELXS251VSN471MP40S
	470	25.4 × 30	0.15	1.57	ELXS251VSN471MQ30S
	560	22 × 45	0.15	1.79	ELXS251VSN561MP45S
	560	25.4 × 35	0.15	1.79	ELXS251VSN561MQ35S
	560	30 × 25	0.15	1.87	ELXS251VSN561MR25S
	680	22 × 50	0.15	2.02	ELXS251VSN681MP50S
	680	25.4 × 40	0.15	2.02	ELXS251VSN681MQ40S
	680	30 × 30	0.15	2.08	ELXS251VSN681MR30S
	680	35 × 25	0.15	2.19	ELXS251VSN681MA25S
	820	25.4 × 45	0.15	2.26	ELXS251VSN821MQ45S
	820	25.4 × 50	0.15	2.29	ELXS251VSN821MQ50S
	820	30 × 35	0.15	2.34	ELXS251VSN821MR35S
	820	35 × 30	0.15	2.45	ELXS251VSN821MA30S
	1,000	30 × 40	0.15	2.66	ELXS251VSN102MR40S
	1,200	30 × 45	0.15	2.99	ELXS251VSN122MR45S
	1,200	30 × 50	0.15	3.04	ELXS251VSN122MR50S
	1,200	35 × 35	0.15	3.00	ELXS251VSN122MA35S
	1,200	35 × 40	0.15	3.11	ELXS251VSN122MA40S
	1,500	35 × 45	0.15	3.56	ELXS251VSN152MA45S
	1,800	35 × 50	0.15	3.98	ELXS251VSN182MA50S
315	180	22 × 25	0.15	0.95	ELXS3B1VSN181MP25S
	220	22 × 30	0.15	1.10	ELXS3B1VSN221MP30S
	220	25.4 × 25	0.15	1.10	ELXS3B1VSN221MQ25S
	270	22 × 35	0.15	1.24	ELXS3B1VSN271MP35S
	270	25.4 × 30	0.15	1.25	ELXS3B1VSN271MQ30S
	330	22 × 40	0.15	1.40	ELXS3B1VSN331MP40S
	330	30 × 25	0.15	1.43	ELXS3B1VSN331MR25S
	390	22 × 45	0.15	1.56	ELXS3B1VSN391MP45S
	390	22 × 50	0.15	1.59	ELXS3B1VSN391MP50S
	390	25.4 × 35	0.15	1.57	ELXS3B1VSN391MQ35S
	470	25.4 × 40	0.15	1.76	ELXS3B1VSN471MQ40S
	470	25.4 × 45	0.15	1.79	ELXS3B1VSN471MQ45S
	470	30 × 30	0.15	1.73	ELXS3B1VSN471MR30S
	470	35 × 25	0.15	1.82	ELXS3B1VSN471MA25S
	560	25.4 × 50	0.15	1.99	ELXS3B1VSN561MQ50S
	560	30 × 35	0.15	1.93	ELXS3B1VSN561MR35S
	560	35 × 30	0.15	2.02	ELXS3B1VSN561MA30S
	680	30 × 40	0.15	2.19	ELXS3B1VSN681MR40S
	680	30 × 45	0.15	2.25	ELXS3B1VSN681MR45S
	680	35 × 35	0.15	2.26	ELXS3B1VSN681MA35S
	820	30 × 50	0.15	2.51	ELXS3B1VSN821MR50S
	820	35 × 40	0.15	2.57	ELXS3B1VSN821MA40S
	1,000	35 × 45	0.15	2.91	ELXS3B1VSN102MA45S
	1,200	35 × 50	0.15	3.25	ELXS3B1VSN122MA50S
400	120	22 × 25	0.15	0.77	ELXS401VSN121MP25S
	150	22 × 30	0.15	0.90	ELXS401VSN151MP30S
	180	22 × 35	0.15	1.02	ELXS401VSN181MP35S
	180	25.4 × 25	0.15	0.99	ELXS401VSN181MQ25S
	220	22 × 40	0.15	1.15	ELXS401VSN221MP40S
	220	25.4 × 30	0.15	1.13	ELXS401VSN221MQ30S
	220	30 × 25	0.15	1.17	ELXS401VSN221MR25S
	270	22 × 45	0.15	1.29	ELXS401VSN271MP45S
	270	22 × 50	0.15	1.32	ELXS401VSN271MP50S
	270	25.4 × 35	0.15	1.30	ELXS401VSN271MQ35S
	330	25.4 × 40	0.15	1.47	ELXS401VSN331MQ40S
	330	30 × 30	0.15	1.45	ELXS401VSN331MR30S
	330	35 × 25	0.15	1.52	ELXS401VSN331MA25S
	390	25.4 × 45	0.15	1.63	ELXS401VSN391MQ45S

LXS Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
400	390	25.4 × 50	0.15	1.66	ELXS401VSN391MQ50S
	390	30 × 35	0.15	1.61	ELXS401VSN391MR35S
	390	35 × 30	0.15	1.68	ELXS401VSN391MA30S
	470	30 × 40	0.15	1.82	ELXS401VSN471MR40S
	470	35 × 35	0.15	1.88	ELXS401VSN471MA35S
	560	30 × 45	0.15	2.04	ELXS401VSN561MR45S
	560	30 × 50	0.15	2.07	ELXS401VSN561MR50S
	560	35 × 40	0.15	2.13	ELXS401VSN561MA40S
	680	35 × 45	0.15	2.40	ELXS401VSN681MA45S
	820	35 × 50	0.15	2.69	ELXS401VSN821MA50S
420	100	22 × 25	0.20	0.70	ELXS421VSN101MP25S
	120	22 × 30	0.20	0.81	ELXS421VSN121MP30S
	120	25.4 × 25	0.20	0.81	ELXS421VSN121MQ25S
	150	22 × 35	0.20	0.93	ELXS421VSN151MP35S
	180	22 × 40	0.20	1.04	ELXS421VSN181MP40S
	180	25.4 × 30	0.20	1.02	ELXS421VSN181MQ30S
	180	30 × 25	0.20	1.06	ELXS421VSN181MR25S
	220	22 × 45	0.20	1.17	ELXS421VSN221MP45S
	220	22 × 50	0.20	1.20	ELXS421VSN221MP50S
	220	25.4 × 35	0.20	1.18	ELXS421VSN221MQ35S
	270	25.4 × 40	0.20	1.33	ELXS421VSN271MQ40S
	270	25.4 × 45	0.20	1.36	ELXS421VSN271MQ45S
	270	30 × 30	0.20	1.31	ELXS421VSN271MR30S
	270	35 × 25	0.20	1.38	ELXS421VSN271MA25S
	330	25.4 × 50	0.20	1.52	ELXS421VSN331MQ50S
	330	30 × 35	0.20	1.48	ELXS421VSN331MR35S
	330	35 × 30	0.20	1.55	ELXS421VSN331MA30S
	390	30 × 40	0.20	1.66	ELXS421VSN391MR40S
	390	30 × 45	0.20	1.70	ELXS421VSN391MR45S
	390	35 × 35	0.20	1.71	ELXS421VSN391MA35S
	470	30 × 50	0.20	1.90	ELXS421VSN471MR50S
	470	35 × 40	0.20	1.95	ELXS421VSN471MA40S
	560	35 × 45	0.20	2.17	ELXS421VSN561MA45S
	680	35 × 50	0.20	2.45	ELXS421VSN681MA50S

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
450	82	22 × 25	0.20	0.64	ELXS451VSN820MP25S
	120	22 × 30	0.20	0.81	ELXS451VSN121MP30S
	120	22 × 35	0.20	0.83	ELXS451VSN121MP35S
	120	25.4 × 25	0.20	0.81	ELXS451VSN121MQ25S
	150	22 × 40	0.20	0.94	ELXS451VSN151MP40S
	150	25.4 × 30	0.20	0.93	ELXS451VSN151MQ30S
	180	22 × 45	0.20	1.06	ELXS451VSN181MP45S
	180	25.4 × 35	0.20	1.06	ELXS451VSN181MQ35S
	180	30 × 25	0.20	1.06	ELXS451VSN181MR25S
	220	22 × 50	0.20	1.20	ELXS451VSN221MP50S
	220	25.4 × 40	0.20	1.20	ELXS451VSN221MQ40S
	220	30 × 30	0.20	1.18	ELXS451VSN221MR30S
	220	35 × 25	0.20	1.24	ELXS451VSN221MA25S
	270	25.4 × 45	0.20	1.36	ELXS451VSN271MQ45S
	270	25.4 × 50	0.20	1.38	ELXS451VSN271MQ50S
	270	30 × 35	0.20	1.34	ELXS451VSN271MR35S
	270	35 × 30	0.20	1.40	ELXS451VSN271MA30S
	330	30 × 40	0.20	1.52	ELXS451VSN331MR40S
	390	30 × 45	0.20	1.70	ELXS451VSN391MR45S
	390	30 × 50	0.20	1.73	ELXS451VSN391MR50S
	390	35 × 35	0.20	1.71	ELXS451VSN391MA35S
	470	35 × 40	0.20	1.95	ELXS451VSN471MA40S
	470	35 × 45	0.20	1.99	ELXS451VSN471MA45S
	560	35 × 50	0.20	2.22	ELXS451VSN561MA50S
500	100	30 × 25	0.20	0.82	ELXS501VSN101MR25S
	120	30 × 30	0.20	0.91	ELXS501VSN121MR30S
	120	35 × 25	0.20	0.88	ELXS501VSN121MA25S
	150	30 × 35	0.20	1.04	ELXS501VSN151MR35S
	180	30 × 40	0.20	1.17	ELXS501VSN181MR40S
	180	35 × 30	0.20	1.10	ELXS501VSN181MA30S
	220	30 × 45	0.20	1.33	ELXS501VSN221MR45S
	220	35 × 35	0.20	1.23	ELXS501VSN221MA35S
	270	30 × 50	0.20	1.50	ELXS501VSN271MR50S
	270	35 × 40	0.20	1.42	ELXS501VSN271MA40S
	330	35 × 45	0.20	1.60	ELXS501VSN331MA45S
	390	35 × 50	0.20	1.78	ELXS501VSN391MA50S
	470	35 × 60	0.20	2.03	ELXS501VSN471MA60S

◆RATED RIPPLE CURRENT MULTIPLIERS

❶Frequency 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
500V_{dc}	0.70	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℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

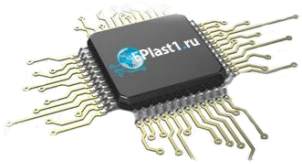
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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