

LSX Series

Features

- Snap-in terminal type
- 105°C, 3000 hours assured
- RoHS compliant, REACH&SVHC compliant

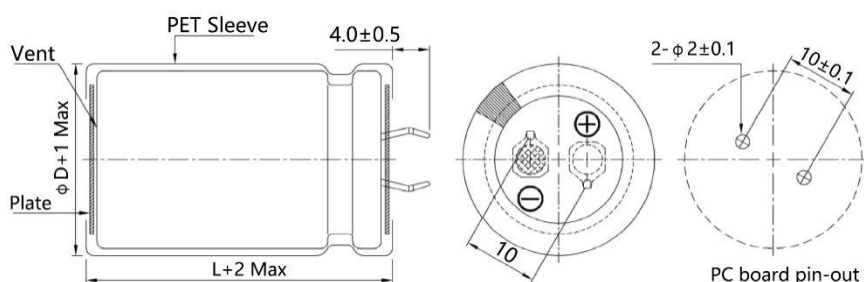


Specifications							
Category Temp. Range	200 ~ 550V						
	-25°C ~ +105°C						
Capacitance Tolerance	±20% (120 Hz / +20 °C)						
Leakage Current	$I \leq 0.01 CV$ or 1.5 mA whichever is smaller (after 5 minutes)						
Tan δ	Please see the attached characteristics list						
Low Temperature Characteristics (Impedance ratio at 120 Hz)	Rated voltage (V)		200~550				
	$Z (-25^{\circ}C) / Z (+20^{\circ}C)$		4				
Ripple Current and Frequency Multipliers	Frequency		50/60Hz	120Hz	300Hz	1kHz	10kHz
	Rated voltage		50/60Hz	120Hz	300Hz	1kHz	10kHz
	200~250V		0.87	1.00	1.17	1.32	1.45
Ripple Current and Temperature Multipliers	Temperature		+40°C	+55°C	+70°C	+85°C	+105°C
	Multipliers		2.7	2.5	2.1	1.7	1.0
	≥315V		0.80	1.00	1.16	1.30	1.41

	Useful Life		Load Life	Endurance Test	Shelf Life	
Life Time	5000H	≥200000H	3000H	4000H	1000H	
Capacitance Change	Within ±30% of initial value		Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value	
Tan δ	Less than 300% of specified value		Less than 200% of specified value	Less than 200% of specified value	Less than 200% of specified value	
Leakage Current	Within specified value		Within specified value	Within specified value	Within specified value	
Condition:						
Applied Voltage	U_R	U_R	U_R	U_R	$U_R=0$	After test : U_R shall be applied for 30min
Applied Current	I_R	$1.4 \times I_R$	I_R	$I_R=0$	$I_R=0$	
Applied Temperature	105°C	40°C	105°C	105°C	105°C	

Dimensions:

Unit: mm



Part Number System:

E-cap	series	400V	330μF	±20 %	30Φx35L		
L	SX	2G	331	M	3035		
Product category	Series name	Rated voltage	Capacitance	Capacitance tolerance	Case Size	Terminal type	Terminal length

Note: For more details, please refer to "Part Number System – Snap in type"

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
200	470	25	30	1.47	424	296	0.15	LSX2D471M2530□□
		30	25	1.56	424	296	0.15	LSX2D471M3025□□
	560	25	35	1.6	355	249	0.15	LSX2D561M2535□□
		30	30	1.65	355	249	0.15	LSX2D561M3030□□
	680	25	40	1.8	293	205	0.15	LSX2D681M2540□□
		30	30	1.82	293	205	0.15	LSX2D681M3030□□
	820	30	35	1.99	243	170	0.15	LSX2D821M3035□□
	1000	22	50	2.17	199	139	0.15	LSX2D102M2250□□
		30	40	2.21	199	139	0.15	LSX2D102M3040□□
	1200	25	45	2.28	166	116	0.15	LSX2D122M2545□□
		30	40	2.32	166	116	0.15	LSX2D122M3040□□
	1500	30	50	2.59	133	93	0.15	LSX2D152M3050□□
		35	40	2.59	133	93	0.15	LSX2D152M3540□□
250	1800	35	45	2.7	111	77	0.15	LSX2D182M3545□□
		35	50	3.23	91	63	0.15	LSX2D222M3550□□
	330	22	40	1.2	603	422	0.15	LSX2E331M2240□□
		25	30	1.3	603	422	0.15	LSX2E331M2530□□
	390	25	35	1.42	510	357	0.15	LSX2E391M2535□□
	470	25	40	1.47	424	296	0.15	LSX2E471M2540□□
		30	30	1.51	424	296	0.15	LSX2E471M3030□□
	560	25	45	1.59	355	249	0.15	LSX2E561M2545□□
		30	30	1.61	355	249	0.15	LSX2E561M3030□□
	680	25	50	1.66	293	205	0.15	LSX2E681M2550□□
		30	35	1.76	293	205	0.15	LSX2E681M3035□□
	820	30	40	1.83	243	170	0.15	LSX2E821M3040□□
		35	35	1.82	243	170	0.15	LSX2E821M3535□□
	1000	30	50	1.87	199	139	0.15	LSX2E102M3050□□
		35	40	1.99	199	139	0.15	LSX2E102M3540□□
	1200	35	45	2.1	166	116	0.15	LSX2E122M3545□□
	1500	35	50	2.7	133	93	0.15	LSX2E152M3550□□
	1800	35	55	2.9	111	77	0.15	LSX2E182M3555□□
		35	60	2.92	111	77	0.15	LSX2E182M3560□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
315	180	22	40	0.78	1106	608	0.15	LSX2F181M2240□□
		25	25	0.85	1106	608	0.15	LSX2F181M2525□□
	220	22	45	0.91	905	498	0.15	LSX2F221M2245□□
		25	30	0.94	905	498	0.15	LSX2F221M2530□□
	270	25	35	1	737	406	0.15	LSX2F271M2535□□
		30	25	0.98	737	406	0.15	LSX2F271M3025□□
	330	30	30	1.13	603	332	0.15	LSX2F331M3030□□
	390	30	35	1.2	510	281	0.15	LSX2F391M3035□□
	470	30	35	1.28	424	233	0.15	LSX2F471M3035□□
	560	30	40	1.46	355	196	0.15	LSX2F561M3040□□
	680	30	45	1.85	293	161	0.15	LSX2F681M3045□□
		35	35	1.88	293	161	0.15	LSX2F681M3535□□
	820	30	50	2.1	242	133	0.15	LSX2F821M3050□□
		35	40	2.15	242	133	0.15	LSX2F821M3540□□
	1000	30	55	2.42	199	109	0.15	LSX2F102M3055□□
		35	45	2.47	199	109	0.15	LSX2F102M3545□□
	1200	35	50	2.6	166	91	0.15	LSX2F122M3550□□
400	120	22	30	0.66	1659	863	0.15	LSX2G121M2230□□
		25	25	0.68	1659	863	0.15	LSX2G121M2525□□
	150	25	30	0.73	1327	690	0.15	LSX2G151M2530□□
		30	25	0.75	1327	690	0.15	LSX2G151M3025□□
	180	22	35	0.78	1106	575	0.15	LSX2G181M2235□□
		30	30	0.83	1106	575	0.15	LSX2G181M3030□□
	220	25	40	0.87	905	471	0.15	LSX2G221M2540□□
		30	30	0.96	905	471	0.15	LSX2G221M3030□□
	270	22	50	0.94	737	383	0.15	LSX2G271M2250□□
		30	35	0.95	737	383	0.15	LSX2G271M3035□□
	330	25	50	1.11	603	314	0.15	LSX2G331M2550□□
		30	35	1.06	603	314	0.15	LSX2G331M3035□□
		35	30	1.09	603	314	0.15	LSX2G331M3530□□
	390	30	40	1.15	510	265	0.15	LSX2G391M3040□□
		35	35	1.26	510	265	0.15	LSX2G391M3535□□
	470	30	50	1.28	424	220	0.15	LSX2G471M3050□□
		35	40	1.31	424	220	0.15	LSX2G471M3540□□
	560	30	50	1.5	355	185	0.15	LSX2G561M3050□□
		35	45	1.65	355	185	0.15	LSX2G561M3545□□
	680	35	50	1.9	293	153	0.15	LSX2G681M3550□□
	820	35	60	2.2	242	126	0.15	LSX2G821M3560□□
	1000	30	70	2.5	199	109	0.15	LSX2G102M3070□□
		35	65	2.6	199	109	0.15	LSX2G102M3565□□

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105°C/120Hz	Max ESR (mΩ) 20°C/120Hz	Typ. ESR (mΩ) 20°C/120Hz	tan δ 20°C/120Hz	
450	120	25	25	0.73	2212	1106	0.20	LSX2W121M2525□□
	150	25	30	0.82	1769	885	0.20	LSX2W151M2530□□
	180	30	30	0.86	1474	737	0.20	LSX2W181M3030□□
	220	25	45	0.94	1206	603	0.20	LSX2W221M2545□□
		30	30	0.95	1206	603	0.20	LSX2W221M3030□□
	270	30	30	1.11	983	492	0.20	LSX2W271M3030□□
		30	35	1.15	983	492	0.20	LSX2W271M3035□□
	330	30	40	1.25	804	402	0.20	LSX2W331M3040□□
		35	30	1.26	804	402	0.20	LSX2W331M3530□□
	390	30	40	1.31	681	340	0.20	LSX2W391M3040□□
		30	45	1.35	681	340	0.20	LSX2W391M3045□□
		35	35	1.36	681	340	0.20	LSX2W391M3535□□
	470	30	50	1.5	565	282	0.20	LSX2W471M3050□□
		35	45	1.55	565	282	0.20	LSX2W471M3545□□
	560	30	50	1.65	473	237	0.20	LSX2W561M3050□□
		35	50	1.7	473	237	0.20	LSX2W561M3550□□
	680	35	50	1.95	391	196	0.20	LSX2W681M3550□□
		35	60	2	391	196	0.20	LSX2W681M3560□□
	820	35	60	2.15	324	162	0.20	LSX2W821M3560□□
		35	65	2.2	324	162	0.20	LSX2W821M3565□□
	1000	35	70	2.6	265	139	0.20	LSX2W102M3570□□
500	100	22	35	0.67	2654	1327	0.20	LSX2H101M2235□□
	120	22	50	0.77	2212	1106	0.20	LSX2H121M2250□□
		25	35	0.81	2212	1106	0.20	LSX2H121M2535□□
	150	25	40	0.82	1769	885	0.20	LSX2H151M2540□□
		30	30	0.85	1769	885	0.20	LSX2H151M3030□□
	180	25	50	0.98	1474	737	0.20	LSX2H181M2550□□
		30	35	1.01	1474	737	0.20	LSX2H181M3035□□
	220	30	35	1.12	1206	603	0.20	LSX2H221M3035□□
		35	30	1.18	1206	603	0.20	LSX2H221M3530□□
	270	30	40	1.25	983	492	0.20	LSX2H271M3040□□
		35	35	1.29	983	492	0.20	LSX2H271M3535□□
	330	35	45	1.36	804	402	0.20	LSX2H331M3545□□
	390	35	50	1.54	681	340	0.20	LSX2H391M3550□□
	470	35	60	1.69	565	282	0.20	LSX2H471M3560□□
550	560	35	65	1.9	473	237	0.20	LSX2H561M3565□□
	680	35	70	2.2	391	196	0.20	LSX2H681M3570□□
	150	30	35	0.86	1769	885	0.20	LSX2L151M3035□□
	180	30	40	1.06	1474	737	0.20	LSX2L181M3040□□
		35	30	1.11	1474	737	0.20	LSX2L181M3530□□
	220	30	50	1.18	1206	603	0.20	LSX2L221M3050□□
		35	35	1.23	1206	603	0.20	LSX2L221M3535□□
	270	35	45	1.31	983	492	0.20	LSX2L271M3545□□
	330	35	50	1.5	804	402	0.20	LSX2L331M3550□□
	390	35	60	1.67	681	340	0.20	LSX2L391M3560□□
	470	35	60	1.9	565	282	0.20	LSX2L471M3560□□
		35	70	1.95	565	282	0.20	LSX2L471M3570□□
	560	35	80	2.1	473	237	0.20	LSX2L561M3580□□