LZX Series

Features

- Snap-in terminal type
- 105℃, 5000 hours assured
- RoHS compliant, REACH&SVHC compliant

Specifications

Category Temp. Range	25 ~ 100V	160 ~ 550V
	–40℃ ~ +105℃	–25℃ ~ +105℃
Capacitance Tolerance	±20% (120 Hz / +20 ℃)	
Leakage Current	I ≦ 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)	25~100	160~250	315~550
Z (-25 ℃) / Z (+20 ℃)	4	4	8
Z (-40 ℃) / Z (+20 ℃)	15	-	-

Ripple Current and Frequency Multipliers

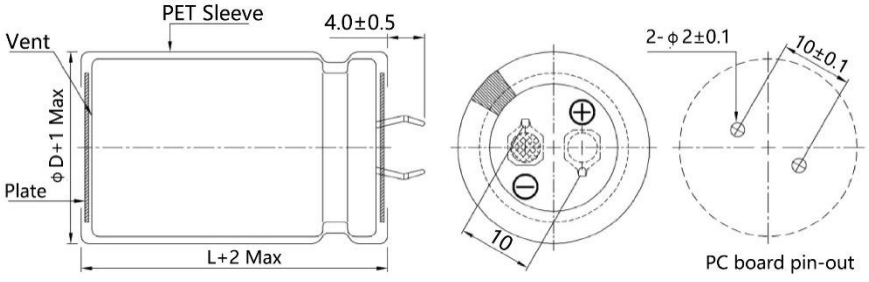
Rated voltage \ Frequency	50/60Hz	120Hz	300Hz	1kHz	10kHz	≥50kHz
≤100V	0.90	1.00	1.10	1.15	1.15	1.15
160~250V	0.80	1.00	1.20	1.30	1.45	1.50
≥315V	0.80	1.00	1.20	1.30	1.42	1.45

Ripple Current and Temperature Multipliers

Temperature	+40℃	+55℃	+70℃	+85℃	+105℃
Multipliers	2.7	2.5	2.1	1.7	1.0

	Useful Life		Load Life	Endurance Test	Shelf Life	
Life Time	7000H	≥200000H	5000H	5000H	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	1.4x I_R	I_R	I_R=0	I_R=0	
Applied Temperature	105℃	40℃	105℃	105℃	105℃	

Dimensions: Unit: mm



Part Number System:

E-cap	series	400V	330μF	±20 %	30Φx50L		
L	**ZX**	**2G**	**331**	**M**	**3050**	□	□
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℃/120Hz	Max ESR (mΩ) 20℃/120Hz	Typ. ESR (mΩ) 20℃/120Hz	tan δ 20℃/120Hz	
25	8200	25	35	2.18	73	51	0.45	LZX1E822M2535□□
		30	25	2.19	73	51	0.45	LZX1E822M3025□□
	10000	22	50	2.56	60	42	0.45	LZX1E103M2250□□
		25	40	2.53	60	42	0.45	LZX1E103M2540□□
		30	30	2.38	60	42	0.45	LZX1E103M3030□□
	12000	25	45	2.79	50	35	0.45	LZX1E123M2545□□
		30	35	2.7	50	35	0.45	LZX1E123M3035□□
		35	30	2.76	50	35	0.45	LZX1E123M3530□□
	15000	30	40	3.13	40	28	0.45	LZX1E153M3040□□
	18000	30	45	3.52	33	23	0.45	LZX1E183M3045□□
		35	35	3.5	33	23	0.45	LZX1E183M3535□□
	22000	30	50	3.92	27	19	0.45	LZX1E223M3050□□
		35	40	3.95	27	19	0.45	LZX1E223M3540□□
	27000	35	50	4.72	22	16	0.45	LZX1E273M3550□□
35	6800	22	50	2.49	78	55	0.40	LZX1V682M2250□□
		25	40	2.45	78	55	0.40	LZX1V682M2540□□
		30	30	2.28	78	55	0.40	LZX1V682M3030□□
	8200	25	45	2.8	65	45	0.40	LZX1V822M2545□□
		30	30	2.69	65	45	0.40	LZX1V822M3030□□
	10000	30	40	3.04	53	37	0.40	LZX1V103M3040□□
		35	30	2.78	53	37	0.40	LZX1V103M3530□□
	12000	30	45	3.38	44	31	0.40	LZX1V123M3045□□
		35	35	3.3	44	31	0.40	LZX1V123M3535□□
	15000	30	45	3.98	35	25	0.40	LZX1V153M3045□□
	18000	35	45	4.4	30	21	0.40	LZX1V183M3545□□
50	3900	25	35	2.2	119	83	0.35	LZX1H392M2535□□
		30	30	2.19	119	83	0.35	LZX1H392M3030□□
	4700	25	40	2.43	99	69	0.35	LZX1H472M2540□□
	5600	25	45	2.72	83	58	0.35	LZX1H562M2545□□
		30	35	2.58	83	58	0.35	LZX1H562M3035□□
		35	30	2.35	83	58	0.35	LZX1H562M3530□□
	6800	30	40	3.01	68	48	0.35	LZX1H682M3040□□
		35	35	2.91	68	48	0.35	LZX1H682M3535□□
	8200	30	50	3.63	57	40	0.35	LZX1H822M3050□□
		35	40	3.36	57	40	0.35	LZX1H822M3540□□
	10000	35	45	3.79	46	33	0.35	LZX1H103M3545□□
	12000	35	50	4.06	39	27	0.35	LZX1H123M3550□□

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Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105℃/120Hz	Max ESR (mΩ) 20℃/120Hz	Typ. ESR (mΩ) 20℃/120Hz	tan δ 20℃/120Hz	
63	2700	22	45	2.1	147	103	0.30	LZX1J272M2245□□
		25	35	2.03	147	103	0.30	LZX1J272M2535□□
		30	30	2.01	147	103	0.30	LZX1J272M3030□□
	3300	25	40	2.33	121	84	0.30	LZX1J332M2540□□
	3900	25	45	2.58	102	72	0.30	LZX1J392M2545□□
		30	35	2.46	102	72	0.30	LZX1J392M3035□□
		35	30	2.31	102	72	0.30	LZX1J392M3530□□
	4700	30	40	2.82	85	59	0.30	LZX1J472M3040□□
		35	35	2.77	85	59	0.30	LZX1J472M3535□□
	5600	30	45	3.22	71	50	0.30	LZX1J562M3045□□
		35	40	3.2	71	50	0.30	LZX1J562M3540□□
	6800	35	45	3.61	59	41	0.30	LZX1J682M3545□□
	8200	35	50	3.94	49	34	0.30	LZX1J822M3550□□
80	1500	22	40	1.7	221	155	0.25	LZX1K152M2240□□
	2200	25	45	2.22	151	106	0.25	LZX1K222M2545□□
		30	30	2.02	151	106	0.25	LZX1K222M3030□□
	2700	30	35	2.5	123	86	0.25	LZX1K272M3035□□
		35	30	2.45	123	86	0.25	LZX1K272M3530□□
	3300	30	40	2.69	101	70	0.25	LZX1K332M3040□□
		35	35	2.6	101	70	0.25	LZX1K332M3535□□
	3900	30	45	2.94	85	60	0.25	LZX1K392M3045□□
		35	40	3	85	60	0.25	LZX1K392M3540□□
	4700	35	45	3.44	71	49	0.25	LZX1K472M3545□□
	5600	35	50	3.72	59	42	0.25	LZX1K562M3550□□
	6800	35	60	3.93	51	36	0.25	LZX1K682M3560□□
100	1200	25	35	1.76	221	155	0.20	LZX2A122M2535□□
		30	30	1.76	221	155	0.20	LZX2A122M3030□□
	1500	22	50	2	177	124	0.20	LZX2A152M2250□□
		25	40	2.03	177	124	0.20	LZX2A152M2540□□
	1800	25	45	2.29	147	103	0.20	LZX2A182M2545□□
		30	35	2.19	147	103	0.20	LZX2A182M3035□□
		35	30	2.15	147	103	0.20	LZX2A182M3530□□
	2200	30	40	2.52	121	84	0.20	LZX2A222M3040□□
		35	35	2.48	121	84	0.20	LZX2A222M3535□□
	2700	30	45	2.86	98	69	0.20	LZX2A272M3045□□
		35	40	2.87	98	69	0.20	LZX2A272M3540□□
	3300	35	45	3.25	80	56	0.20	LZX2A332M3545□□
	3900	35	50	3.56	68	48	0.20	LZX2A392M3550□□
	4700	35	50	3.72	56	39	0.20	LZX2A472M3550□□
160	560	22	45	1.26	355	249	0.15	LZX2C561M2245□□
	680	22	45	1.44	293	205	0.15	LZX2C681M2245□□
		25	40	1.43	293	205	0.15	LZX2C681M2540□□
		30	35	1.5	293	205	0.15	LZX2C681M3035□□
	820	25	45	1.63	243	170	0.15	LZX2C821M2545□□
		30	40	1.66	243	170	0.15	LZX2C821M3040□□
	1000	30	45	1.89	199	139	0.15	LZX2C102M3045□□
		35	35	1.89	199	139	0.15	LZX2C102M3535□□
	1200	30	50	2.16	166	116	0.15	LZX2C122M3050□□
		35	40	2.23	166	116	0.15	LZX2C122M3540□□
	1500	35	45	2.61	133	93	0.15	LZX2C152M3545□□
	1800	35	50	2.97	111	77	0.15	LZX2C182M3550□□
	2200	30	55	3.22	90	62	0.15	LZX2C222M3055□□
	3300	35	60	3.51	61	42	0.15	LZX2C332M3560□□

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Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105℃/120Hz	Max ESR (mΩ) 20℃/120Hz	Typ. ESR (mΩ) 20℃/120Hz	tan δ 20℃/120Hz	
200	470	22	45	1.17	424	296	0.15	LZX2D471M2245□□
		25	40	1.22	424	296	0.15	LZX2D471M2540□□
		30	30	1.17	424	296	0.15	LZX2D471M3030□□
	560	25	45	1.39	355	249	0.15	LZX2D561M2545□□
		30	35	1.38	355	249	0.15	LZX2D561M3035□□
	680	25	50	1.58	293	205	0.15	LZX2D681M2550□□
		30	40	1.61	293	205	0.15	LZX2D681M3040□□
		35	30	1.49	293	205	0.15	LZX2D681M3530□□
	820	30	45	1.85	243	170	0.15	LZX2D821M3045□□
		35	35	1.75	243	170	0.15	LZX2D821M3535□□
	1000	30	50	2.11	199	139	0.15	LZX2D102M3050□□
		35	40	2.07	199	139	0.15	LZX2D102M3540□□
	1200	30	50	2.38	166	116	0.15	LZX2D122M3050□□
	1500	35	50	2.76	133	93	0.15	LZX2D152M3550□□
250	330	22	45	1.01	603	422	0.15	LZX2E331M2245□□
		30	30	1	603	422	0.15	LZX2E331M3030□□
	390	22	50	1.13	510	357	0.15	LZX2E391M2250□□
		25	40	1.13	510	357	0.15	LZX2E391M2540□□
		30	35	1.15	510	357	0.15	LZX2E391M3035□□
	470	25	45	1.29	424	296	0.15	LZX2E471M2545□□
		35	30	1.24	424	296	0.15	LZX2E471M3530□□
	560	25	50	1.45	355	249	0.15	LZX2E561M2550□□
		30	40	1.48	355	249	0.15	LZX2E561M3040□□
		35	35	1.49	355	249	0.15	LZX2E561M3535□□
	680	30	45	1.71	293	205	0.15	LZX2E681M3045□□
		35	40	1.74	293	205	0.15	LZX2E681M3540□□
	820	30	50	1.94	243	170	0.15	LZX2E821M3050□□
	1000	35	45	2.2	199	139	0.15	LZX2E102M3545□□
	1200	35	45	2.45	166	111	0.15	LZX2E122M3545□□
315	220	22	30	0.72	905	603	0.15	LZX2F221M2230□□
	270	25	30	0.81	737	491	0.15	LZX2F271M2530□□
	330	30	25	0.9	603	402	0.15	LZX2F331M3025□□
	390	22	45	1.04	511	340	0.15	LZX2F391M2245□□
		25	35	1.05	511	340	0.15	LZX2F391M2535□□
	470	30	30	1.15	424	282	0.15	LZX2F471M3030□□
	560	25	50	1.34	356	237	0.15	LZX2F561M2550□□
	680	30	50	1.72	293	196	0.15	LZX2F681M3050□□
		35	40	1.78	293	196	0.15	LZX2F681M3540□□
	820	30	50	1.95	243	162	0.15	LZX2F821M3050□□
	1000	35	45	2.35	201	133	0.15	LZX2F102M3545□□
	1200	35	50	2.7	168	112	0.15	LZX2F122M3550□□
	1500	35	60	3.15	134	89	0.15	LZX2F152M3560□□
		35	75	3.46	134	86	0.15	LZX2F152M3575□□

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Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105℃/120Hz	Max ESR (mΩ) 20℃/120Hz	Typ. ESR (mΩ) 20℃/120Hz	tan δ 20℃/120Hz	
400	150	25	30	0.65	1327	885	0.15	LZX2G151M2530□□
	220	22	50	0.79	905	603	0.15	LZX2G221M2250□□
		25	35	0.85	905	603	0.15	LZX2G221M2535□□
		35	20	0.89	905	603	0.15	LZX2G221M3520□□
	270	35	25	0.96	737	491	0.15	LZX2G271M3525□□
	330	30	35	1.07	603	402	0.15	LZX2G331M3035□□
		30	50	1.12	603	402	0.15	LZX2G331M3050□□
		35	30	1.18	603	402	0.15	LZX2G331M3530□□
	390	30	35	1.21	511	340	0.15	LZX2G391M3035□□
		30	50	1.27	511	340	0.15	LZX2G391M3050□□
	470	30	50	1.31	424	282	0.15	LZX2G471M3050□□
		35	50	1.33	424	282	0.15	LZX2G471M3550□□
	560	30	50	1.49	357	238	0.15	LZX2G561M3050□□
		35	50	1.53	357	238	0.15	LZX2G561M3550□□
	680	30	50	1.82	296	197	0.15	LZX2G681M3050□□
		30	55	1.88	296	197	0.15	LZX2G681M3055□□
	820	35	55	2.16	246	163	0.15	LZX2G821M3555□□
	1000	35	60	2.57	203	134	0.15	LZX2G102M3560□□
		35	75	2.82	199	130	0.15	LZX2G102M3575□□
	1200	35	75	3.28	167	111	0.15	LZX2G122M3575□□
450	120	22	30	0.58	2212	1106	0.20	LZX2W121M2230□□
	150	22	35	0.66	1769	885	0.20	LZX2W151M2235□□
		25	40	0.68	1769	885	0.20	LZX2W151M2540□□
	180	25	45	0.74	1474	737	0.20	LZX2W181M2545□□
		30	30	0.77	1474	737	0.20	LZX2W181M3030□□
	220	30	30	0.88	1206	603	0.20	LZX2W221M3030□□
	270	25	50	0.99	983	491	0.20	LZX2W271M2550□□
		30	30	1.01	983	491	0.20	LZX2W271M3030□□
	330	30	35	1.12	804	402	0.20	LZX2W331M3035□□
		35	30	1.15	804	402	0.20	LZX2W331M3530□□
	390	30	40	1.26	681	340	0.20	LZX2W391M3040□□
		35	35	1.28	681	340	0.20	LZX2W391M3535□□
	470	35	40	1.47	565	281	0.20	LZX2W471M3540□□
		35	45	1.5	565	281	0.20	LZX2W471M3545□□
	560	35	50	1.68	476	238	0.20	LZX2W561M3550□□
	680	35	50	1.92	395	197	0.20	LZX2W681M3550□□
		35	60	1.97	395	197	0.20	LZX2W681M3560□□
	820	35	60	2.18	328	163	0.20	LZX2W821M3560□□
	1000	35	70	2.56	270	130	0.20	LZX2W102M3570□□
	1000	35	75	2.66	270	130	0.20	LZX2W102M3575□□
500	100	25	30	0.67	2654	1327	0.20	LZX2H101M2530□□
	120	25	30	0.77	2212	1106	0.20	LZX2H121M2530□□
	180	25	50	0.98	1474	737	0.20	LZX2H181M2550□□
	220	30	35	1.12	1206	603	0.20	LZX2H221M3035□□
	270	30	50	1.25	983	492	0.20	LZX2H271M3050□□
	330	35	45	1.36	804	402	0.20	LZX2H331M3545□□
	390	35	50	1.54	681	340	0.20	LZX2H391M3550□□
	470	35	60	1.69	565	282	0.20	LZX2H471M3560□□
	560	35	60	1.86	476	238	0.20	LZX2H561M3560□□
	680	35	70	2.17	395	198	0.20	LZX2H681M3570□□

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Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number
		øD (mm)	L (mm)	Rated ripple current (A rms) 105℃/120Hz	Max ESR (mΩ) 20℃/120Hz	Typ. ESR (mΩ) 20℃/120Hz	tan δ 20℃/120Hz	
550	150	30	35	0.92	1769	885	0.20	LZX2L151M3035□□
	180	30	40	1.03	1474	737	0.20	LZX2L181M3040□□
	220	30	50	1.15	1026	603	0.20	LZX2L221M3050□□
	270	35	45	1.3	983	492	0.20	LZX2L271M3545□□
	330	35	55	1.48	804	402	0.20	LZX2L331M3555□□
	390	35	60	1.65	681	340	0.20	LZX2L391M3560□□
	470	35	60	1.9	565	282	0.20	LZX2L471M3560□□
		35	70	1.92	565	282	0.20	LZX2L471M3570□□
	560	35	80	2.05	473	237	0.20	LZX2L561M3580□□
	680	40	75	2.39	390	196	0.20	LZX2L681M4075□□

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