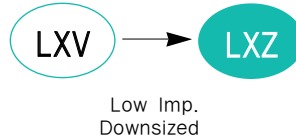


LXZ(NXP) Series

• 105°C 2,000 ~ 5,000Hrs assured.

Solvent-proof

- Low impedance.
- Downsized of LXV series.
- For SMPS, IP-Board, Adaptor
- RoHS compliant.



SPECIFICATIONS

Item	Characteristics												
Rated Voltage Range	6.3 ~ 35 V _{DC}												
Operating Temperature Range	-55 ~ +105°C												
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)												
Leakage Current	$I = 0.01CV (\mu A) \text{ or } 3\mu A, \text{ whichever is greater.}$ Where, I:Max. leakage current(μA) C:Nominal capacitance(μF) V:Rated voltage(V _{DC}) (at 20°C, 2 minutes)												
Dissipation Factor (Tan δ)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>TANδ(Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table> When the capacitance exceeds 1,000 μF , 0.02 shall be added every 1,000 μF increase. (at 20°C, 120Hz)	Rated Voltage(V _{DC})	6.3	10	16	25	35	TAN δ (Max.)	0.22	0.19	0.16	0.14	0.12
Rated Voltage(V _{DC})	6.3	10	16	25	35								
TAN δ (Max.)	0.22	0.19	0.16	0.14	0.12								
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied at 105°C for the specified period of time. Capacitance change \leq ±20% of the initial value TAN δ \leq 200% of the initial specified value Leakage Current \leq The initial specified value <table border="1"> <tr> <td>ϕ 5, 6.3</td> <td>2,000 hours</td> </tr> <tr> <td>ϕ 8</td> <td>3,000 hours</td> </tr> <tr> <td>ϕ 10~</td> <td>5,000 hours</td> </tr> </table>	ϕ 5, 6.3	2,000 hours	ϕ 8	3,000 hours	ϕ 10~	5,000 hours						
ϕ 5, 6.3	2,000 hours												
ϕ 8	3,000 hours												
ϕ 10~	5,000 hours												
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. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurement. Capacitance change \leq ±20% of the initial value TAN δ \leq 200% of the initial specified value Leakage Current \leq The initial specified value												
others	Satisfied characteristics W of KS C 6421												

DIMENSIONS OF LXZ Series

Unit (mm)

Marking : DARK BROWN SLEEVE, SILVER INK

ϕD	5	6.3	8	10	12.5	16	18
ϕd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5

$\phi D \leq 8, \phi D' \leq \phi D + 0.5, L' \leq L + 1.5$
 $\phi D > 8, \phi D' \leq \phi D + 0.5, L' \leq L + 2.0$

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF) \ Freq.(Hz)	120	1k	10k	100k
33 ~ 180	0.40	0.75	0.90	1.00
220 ~ 560	0.50	0.85	0.94	1.00
680 ~ 1,800	0.60	0.87	0.95	1.00
2,200 ~ 3,900	0.75	0.90	0.95	1.00
4,700 ~ 18,000	0.85	0.95	0.98	1.00



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF LXZ Series

Vdc ∅ D × L (mm)	6.3(0J)			10(1A)			16(1C)		
	CAP.(μF)	IMP(Ω max.)	Ripple(mArms)	CAP.(μF)	IMP(Ω max.)	Ripple(mArms)	CAP.(μF)	IMP(Ω max.)	Ripple(mArms)
		(20°C/100kHz)	(105°C/100kHz)		(20°C/100kHz)	(105°C/100kHz)		(20°C/100kHz)	(105°C/100kHz)
5 × 11	150	0.50	175	100	0.50	175	47	0.50	175
6.3 × 11	330	0.25	290	220	0.25	290	100	0.25	290
6.3 × 15	470	0.18	400	330	0.18	400	220	0.18	400
8 × 11.5	680	0.12	555	470	0.12	555	330	0.12	555
8 × 15	1,000	0.090	730	680	0.090	730	470	0.090	730
8 × 20	1,200	0.080	810	1,000	0.080	810	560	0.080	810
10 × 12.5	820	0.090	760	680	0.090	760	470	0.090	760
10 × 16	1,200	0.068	1,050	1,000	0.068	1,050	680	0.068	1,050
10 × 20	1,500	0.052	1,220	1,200	0.052	1,220	1,000	0.052	1,220
10 × 25	2,200	0.045	1,440	1,500	0.045	1,440	1,200	0.045	1,440
10 × 30	2,700	0.037	1,690	1,800	0.037	1,690	1,500	0.037	1,690
12.5 × 20	3,300	0.038	1,660	2,200	0.038	1,660	1,500	0.038	1,660
12.5 × 25	3,900	0.030	1,950	3,300	0.030	1,950	2,200	0.030	1,950
12.5 × 30	4,700	0.025	2,310	3,900	0.025	2,310	2,700	0.025	2,310
12.5 × 35	5,600	0.022	2,510	4,700	0.022	2,510	3,300	0.022	2,510
12.5 × 42.5	6,800	0.019	2,870	5,600	0.019	2,870	3,900	0.019	2,870
16 × 20	5,600	0.031	2,210	3,900	0.031	2,210	2,700	0.031	2,210
16 × 25	6,800	0.024	2,560	5,600	0.024	2,560	3,900	0.024	2,560
16 × 31.5	8,200	0.021	3,010	6,800	0.021	3,010	4,700	0.021	3,010
16 × 35.5	10,000	0.019	3,150	8,200	0.019	3,150	5,600	0.019	3,150
18 × 20	6,800	0.031	2,490	5,600	0.031	2,490	3,900	0.031	2,490
18 × 25	10,000	0.023	2,740	6,800	0.023	2,740	4,700	0.023	2,740
18 × 30	12,000	0.021	3,330	8,200	0.021	3,330	5,600	0.021	3,330
18 × 35.5	15,000	0.019	3,680	10,000	0.019	3,680	8,200	0.019	3,680
18 × 40	18,000	0.018	3,800	12,000	0.018	3,800	10,000	0.018	3,800

Vdc ∅ D × L (mm)	25(1E)			35(1V)		
	CAP.(μF)	IMP(Ω max.)	Ripple(mArms)	CAP.(μF)	IMP(Ω max.)	Ripple(mArms)
		(20°C/100kHz)	(105°C/100kHz)		(20°C/100kHz)	(105°C/100kHz)
5 × 11	47	0.50	175	33	0.50	175
6.3 × 11	100	0.25	290	56	0.25	290
6.3 × 15	150	0.18	400	100	0.18	400
8 × 11.5	220	0.12	555	150	0.12	555
8 × 15	330	0.090	730	220	0.090	730
8 × 20	390	0.080	810	270	0.080	810
10 × 12.5	330	0.090	760	220	0.090	760
10 × 16	470	0.068	1,050	330	0.068	1,050
10 × 20	680	0.052	1,220	470	0.052	1,220
10 × 25	820	0.045	1,440	560	0.045	1,440
10 × 30	1,000	0.037	1,690	680	0.037	1,690
12.5 × 20	1,000	0.038	1,660	680	0.038	1,660
12.5 × 25	1,500	0.030	1,950	1,000	0.030	1,950
12.5 × 30	1,800	0.025	2,310	1,200	0.025	2,310
12.5 × 35	2,200	0.022	2,510	1,500	0.022	2,510
12.5 × 42.5	2,700	0.019	2,870	1,800	0.019	2,870
16 × 20	1,800	0.031	2,210	1,200	0.031	2,210
16 × 25	2,700	0.024	2,560	1,800	0.024	2,560
16 × 31.5	3,300	0.021	3,010	2,200	0.021	3,010
16 × 35.5	3,900	0.019	3,150	2,700	0.019	3,150
18 × 20	2,200	0.031	2,490	1,800	0.031	2,490
18 × 25	3,300	0.023	2,740	2,200	0.023	2,740
18 × 30	3,900	0.021	3,330	2,700	0.021	3,330
18 × 35.5	4,700	0.019	3,680	3,300	0.019	3,680
18 × 40	5,600	0.018	3,800	3,900	0.018	3,800