

**NXP(LXZ) Series**

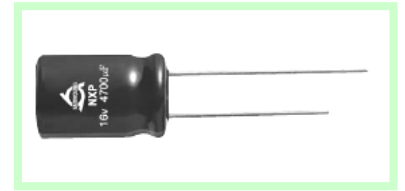
● 105°C 2,000~5,000Hrs assured.

Solvent-proof

- Low Impedance.
- Downsized of LXV series
- For SMPS , IP-Board , Adaptor
- RoHS compliant.
- Halogen-free capacitors are also available.



Low Imp. Downsized.



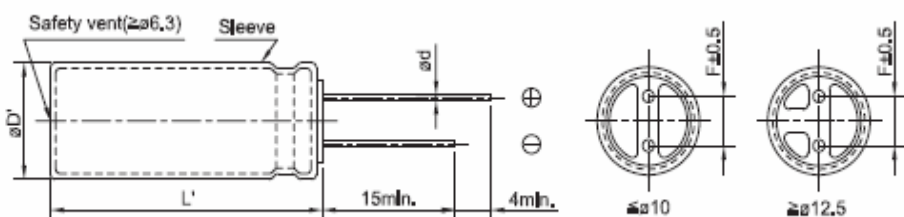
**SPECCIFICATIONS**

Item	Characteristics														
Rated Voltage Range	6.3 ~ 50 V <sub>DC</sub>														
Operating Temperature Range	-55 ~ +105°C														
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)														
Leakage Current	I = 0.01CV or 3μA, whichever is greater. Where, I : Max. Leakage current(μA) C : Nominal capacitance(μF) V : Rated voltage(V <sub>DC</sub> ) (at 20°C , 2 minutes)														
Dissipation Factor ( tan δ )	<table border="1"> <tr> <td>Rated Voltage(V<sub>DC</sub>)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</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> <td>0.10</td> </tr> </table> <p>When the capacitance exceeds 1,000μF , 0.02 shall be added every 1,000μF increase. (at 20°C, 120Hz)</p>	Rated Voltage(V <sub>DC</sub> )	6.3	10	16	25	35	50	Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10
Rated Voltage(V <sub>DC</sub> )	6.3	10	16	25	35	50									
Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10									
Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with the rated ripple current is applied at 105°C for the specified period of time</p> <table border="1"> <tr> <td>Φ5 , 6.3</td> <td>2,000hrs</td> </tr> <tr> <td>Φ8</td> <td>3,000hrs</td> </tr> <tr> <td>Φ10~</td> <td>5,000hrs</td> </tr> </table> <p>Capacitance change ≤ ±20 % of the initial value tan δ ≤ 200 % of the initial specified value Leakage current ≤ The initial specified value</p>	Φ5 , 6.3	2,000hrs	Φ8	3,000hrs	Φ10~	5,000hrs								
Φ5 , 6.3	2,000hrs														
Φ8	3,000hrs														
Φ10~	5,000hrs														
Shelf Life	<p>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 measurements.</p> <p>Capacitance change ≤ ±20 % of the initial value tan δ ≤ 200 % of the initial specified value Leakage current ≤ The initial specified value</p>														
Others	Satisfied characteristics KS C IEC 60384-4														

\* Please refer each approval sheet for detail specification.

**DIMENSIONS OF LXZ Series**

Unit (mm)



Marking : DARK BROWN SLEEVE, SILVER INK

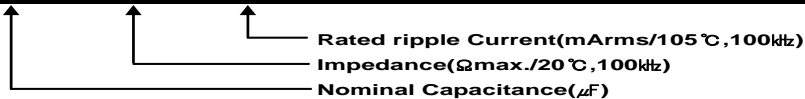
øD	5	6.3	8	10	12.5	16	18
ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
øD'	øD+0.5 max.						
L'	L+1.5 max.			L+2.0 max.			



**RATINGS OF NXP(LXZ) Series**

V <sub>DC</sub> ΦDxL(mm)	6.3			10			16		
	μF	IMP.	RIPPLE	μF	IMP.	RIPPLE	μF	IMP.	RIPPLE
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 × 31.5	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

V <sub>DC</sub> ΦDxL(mm)	25			35			50		
	μF	IMP.	RIPPLE	μF	IMP.	RIPPLE	μF	IMP.	RIPPLE
5 × 11	47	0.50	175	33	0.50	175	22	0.70	155
6.3 × 11	82	0.30	260	47	0.25	265	33	0.45	170
6.3 × 11	100	0.25	290	56	0.25	290	47	0.45	180
6.3 × 15	150	0.18	400	100	0.18	400	68	0.31	360
8 × 11.5	220	0.12	555	150	0.12	555	100	0.18	485
8 × 15	330	0.090	730	220	0.090	730	120	0.16	635
8 × 20	390	0.080	810	270	0.080	810	180	0.12	730
10 × 12.5	330	0.090	760	220	0.090	760	120	0.16	620
10 × 16	470	0.068	1,050	330	0.068	1,050	180	0.13	850
	680	0.068	1,130						
10 × 20	680	0.052	1,220	470	0.052	1,220	220	0.09	1,050
	820	0.052	1,320						
10 × 25	820	0.045	1,440	560	0.045	1,440	330	0.073	1,250
10 × 30	1,000	0.037	1,690	680	0.037	1,690	390	0.054	1,500
12.5 × 20	1,000	0.038	1,660	680	0.038	1,660	390	0.059	1,480
12.5 × 25	1,500	0.030	1,950	1,000	0.030	1,950	560	0.04	1,840
				1,500	0.030	2,200			
12.5 × 30	1,800	0.025	2,310	1,200	0.025	2,310	680	0.039	2,220
12.5 × 35	2,200	0.022	2,510	1,500	0.022	2,510	820	0.033	2,290
12.5 × 42.5	2,700	0.019	2,870	1,800	0.019	2,870	1,000	0.029	2,500
16 × 20	1,800	0.031	2,210	1,200	0.031	2,210	680	0.048	1,840
16 × 25	2,700	0.024	2,560	1,800	0.024	2,560	1,000	0.034	2,240
16 × 31.5	3,300	0.021	3,010	2,200	0.021	3,010	1,200	0.028	2,700
16 × 35.5	3,900	0.019	3,150	2,700	0.019	3,150	1,500	0.026	2,800
18 × 20	2,200	0.031	2,490	1,800	0.031	2,490	820	0.042	1,980
18 × 25	3,300	0.023	2,740	2,200	0.023	2,740	1,200	0.029	2,610
18 × 31.5	3,900	0.021	3,330	2,700	0.021	3,330	1,800	0.027	2,750
18 × 35.5	4,700	0.019	3,680	3,300	0.019	3,680	2,200	0.025	2,900
18 × 40	5,600	0.018	3,800	3,900	0.018	3,800	2,700	0.022	3,200



**RATED RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Freq.(Hz) Cap.(μF)	120	1k	10k	50k	100k
22~180	0.40	0.75	0.90	0.93	1.00
220~560	0.50	0.85	0.94	0.96	1.00
680~1,800	0.60	0.87	0.95	0.97	1.00
2,200~3,900	0.75	0.90	0.95	0.97	1.00
4,700~18,000	0.85	0.95	0.98	0.99	1.00