

LSU SERIES

Load Life : 85°C 5000 hours

RoHS compliance



◆SPECIFICATIONS

Items	Characteristics															
Category Temperature Range	-25~+85°C															
Rated Voltage Range	350~580Vdc															
Capacitance Tolerance	±20% (20°C, 120Hz)															
Leakage Current(MAX)	$I=3\sqrt{CV}$ or 5mA whichever is smaller. (After 5 minutes application of rated voltage) I =Leakage Current(µA) C =Capacitance(µF) V =Rated Voltage(Vdc)															
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th>Vdc \ φD</th> <th>51</th> <th>64</th> <th>77</th> <th>90</th> </tr> </thead> <tbody> <tr> <td>350~450</td> <td>0.20</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>500~580</td> <td>0.25</td> <td>0.30</td> <td>0.30</td> <td>0.30</td> </tr> </tbody> </table> (20°C, 120Hz)	Vdc \ φD	51	64	77	90	350~450	0.20	0.25	0.25	0.25	500~580	0.25	0.30	0.30	0.30
Vdc \ φD	51	64	77	90												
350~450	0.20	0.25	0.25	0.25												
500~580	0.25	0.30	0.30	0.30												
Endurance	After applying rated voltage with rated ripple current for 5000 hours (580Vdc:3000 hours), at 85°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table>	Capacitance Change	Within ±20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.									
Capacitance Change	Within ±20% of the initial value.															
Dissipation Factor	Not more than 200% of the specified value.															
Leakage Current	Not more than the specified value.															

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		60(50)	120(100)	300	500	1k	10k≤
Coefficient	350~450Vdc	0.80	1.00	1.17	1.23	1.30	1.40
	500~580Vdc	0.80	1.00	1.15	1.20	1.25	1.30

◆PART NUMBER

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LSU
□□□□□
M
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□□
DXL
 Rated Voltage Series Capacitance Capacitance Tolerance Option Clamp Code Case Size

◆DIMENSIONS

(I type)

(Y type)

(mm)

	φD	W1	W2	W3	W4	W5	F
I type	51	34.0	40.0	3.5	6.0	12	21.8
	64	40.0	45.0	4.5	7.0	12	28.2
	77	47.0	53.0	4.5	6.0	12	31.4
Y type	90	54.0	60.0	4.5	6.0	14	31.4
	51	32.5	37.5	4.5	6.0	12	21.8
	64	38.0	43.0	4.5	8.0	14	28.2
	77	44.5	49.0	4.5	7.0	14	31.4
	90	50.8	56.0	4.5	8.0	16	31.4

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (uF)	Size φDXL (mm)	Ripple Current (A.r.m.s 85°C,120Hz)
350	1800	51×98	7.8
	2200	51×118	8.7
	2700	51×138	9.8
	3300	51×148	10.8
	3900	64×119	12.9
	4700	64×139	14.3
	5600	77×121	17.8
	6800	64×189	17.7
	6800	77×141	19.8
	8200	77×151	21.8
	8200	90×121	25.8
	10000	77×191	24.6
	10000	90×141	28.8
	12000	90×191	30.6
	15000	90×191	36.2
	18000	90×221	40.1
	400	1500	51×98
1800		51×118	7.7
2200		51×138	8.6
2700		51×148	9.5
3300		64×119	11.5
3900		64×139	12.7
4700		64×149	13.8
4700		77×121	15.8
5600		64×189	15.4
5600		77×141	17.5
6800		77×151	19.2
6800		90×121	22.9
8200		77×191	21.4
8200		90×141	25.4
10000		90×151	27.9
12000		90×191	31.5
15000		90×221	35.8
18000	90×241	38.9	
450	1200	51×98	6.5
	1500	51×118	7.4
	1800	51×138	8.3
	2200	64×119	10.1
	2700	64×139	11.3
	3300	64×149	12.5
	3900	77×121	15.3
	4700	77×141	17.0
	4700	90×121	18.1
	5600	77×151	17.4
	6800	77×191	19.2
	6800	90×141	21.0
	8200	90×191	25.1
	10000	90×221	27.9
	12000	90×241	30.0

Rated Voltage (Vdc)	Capacitance (uF)	Size φDXL (mm)	Ripple Current (A.r.m.s 85°C,120Hz)	
500	1200	51×98	5.6	
	1500	51×118	6.3	
	1800	51×148	7.1	
	2200	64×119	8.5	
	2700	64×139	9.6	
	3300	64×149	10.5	
	3900	77×131	13.3	
	4700	77×151	14.8	
	4700	90×121	17.8	
	5600	90×131	19.5	
	6800	77×191	18.1	
	6800	90×151	21.7	
	8200	90×191	24.5	
	10000	90×221	27.4	
	12000	90×241	30.1	
	550	1800	64×119	6.0
		2200	64×139	6.8
2700		64×149	7.5	
3300		77×131	9.4	
3900		77×151	10.4	
4700		77×171	11.5	
4700		90×131	13.6	
5600		77×191	12.7	
5600		90×151	15.2	
6800		90×191	17.3	
8200		90×221	19.4	
10000	90×241	21.6		
580	1500	64×119	5.6	
	1800	64×139	6.3	
	2200	64×149	7.1	
	2700	77×131	8.8	
	3300	77×151	9.9	
	3900	77×171	11.0	
	3900	90×131	12.9	
	4700	77×191	12.2	
	4700	90×151	14.5	
	5600	90×191	16.3	
	6800	90×221	18.4	
8200	90×241	20.4		

◆Tightening torque of bolt and Permissible current of terminal

Clamp Bolt	Recommended Tightening torque
M3	0.6 [N·m]
M4	1.3 [N·m]

Terminal	Recommended Tightening torque (Permissible Range)	Permissible Current of Terminal
M5	2.2(1.5~3.2) [N·m]	60 [A r.m.s.]