

LSY SERIES

85°C 5000 hours, Miniaturized, Screw Terminal Type

◆FEATURES

- Load Life : 85°C 5000 hours.
- Smaller size the LSU series.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics															
Category Temperature Range	−25~+85℃															
Rated Voltage Range	350~500Vdc															
Capacitance Tolerance	±20% (20℃,120Hz)															
Leakage Current(MAX)	I=3 √CV or 5mA whichever is smaller.(After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)															
(tanδ) Dissipation Factor(MAX)	<table><tr><td>Vdc \ φD</td><td>51</td><td>64</td><td>77</td><td>90</td></tr><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</td><td>0.30</td><td>0.30</td><td>0.30</td><td>0.30</td></tr></table> (20℃,120Hz)	Vdc \ φD	51	64	77	90	350~450	0.20	0.25	0.25	0.25	500	0.30	0.30	0.30	0.30
Vdc \ φD	51	64	77	90												
350~450	0.20	0.25	0.25	0.25												
500	0.30	0.30	0.30	0.30												
Endurance	After applying rated voltage with rated ripple current for 5000 hours at 85℃, the capacitors shall meet the following requirements. <table><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></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.									
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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
500Vdc	0.80	1.00	1.15	1.20	1.25	1.30

◆PART NUMBER

	LSY		M			D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Clamp Code	Case Size

◆Dimensions in mm (not to scale)

		(mm)						
I type	ϕ D	W1	W2	W3	W4	W5	F	
	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 (μ F)	Size ϕ DXL (mm)	Ripple Current (A.r.m.s. 85°C, 120Hz)
350	2200	51×83	7.4
	2700	51×98	8.4
	3300	51×118	9.5
	3900	51×133	10.5
	4700	64×102	12.3
	5600	64×119	13.7
	6800	64×139	15.4
	8200	77×116	18.7
	10000	77×136	21.1
	12000	77×176	24.0
	15000	90×146	30.7
	18000	90×171	34.5
	22000	90×221	40.4
400	2700	51×113	8.8
	3300	51×133	10.0
	3900	64×99	11.6
	4700	64×134	12.9
	5600	64×144	14.7
	6800	77×121	18.0
	8200	77×141	20.2
	10000	77×176	23.0
	12000	90×176	30.4
	15000	90×181	33.5
	18000	90×211	37.5

Rated Voltage (Vdc)	Capacitance (μ F)	Size ϕ DXL (mm)	Ripple Current (A.r.m.s. 85°C, 120Hz)
450	2200	51×113	8.3
	2700	51×133	9.4
	3300	64×104	11.1
	3900	64×134	12.7
	4700	77×116	15.5
	5600	77×136	17.3
	6800	77×146	19.2
	8200	77×176	21.5
	10000	90×176	28.7
	12000	90×176	31.0
	15000	90×216	35.7
500	1500	51×98	6.0
	1800	51×133	7.0
	2200	51×143	7.7
	2700	64×114	9.0
	3300	64×134	10.2
	4700	77×136	14.2
	5600	77×176	16.6
	6800	90×176	22.2
	8200	90×176	24.2
	10000	90×211	27.4

◆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]	60Arms