

**LSH SERIES**

105°C 5000 hours, Miniaturized, Screw Terminal Type

◆FEATURES

- Load Life : 105°C 5000 hours
- Smaller size the LSG series.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics												
Category Temperature Range	-25~+105°C												
Rated Voltage Range	350~450Vdc												
Capacitance Tolerance	±20% (20°C, 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 border="1"> <thead> <tr> <th>Vdc \ φD</th> <th>φ51</th> <th>φ64</th> <th>φ77</th> <th>φ90</th> <th>(20°C, 120Hz)</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> <td></td> </tr> </tbody> </table>	Vdc \ φD	φ51	φ64	φ77	φ90	(20°C, 120Hz)	350~450	0.20	0.25	0.25	0.25	
Vdc \ φD	φ51	φ64	φ77	φ90	(20°C, 120Hz)								
350~450	0.20	0.25	0.25	0.25									
Endurance	<p>After applying rated voltage with rated ripple current for 5000 hours at 105°C, the capacitors shall meet the following requirements.</p> <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.						
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◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120(100)	300	500	1k	10k≤
Coefficient	0.80	1.00	1.17	1.23	1.30	1.40

◆PART NUMBER

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

◆Dimensions in mm (not to scale)

(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 (μF)	Size φDXL (mm)	Ripple Current (A.r.m.s. 105°C,120Hz)
350	2200	51×83	5.5
	2700	51×98	6.2
	3300	51×118	7.0
	3900	64×99	8.5
	4700	64×114	9.5
	5600	64×134	10.5
	6800	77×116	13.0
	8200	77×136	14.5
	10000	90×116	18.3
	12000	90×136	20.6
	15000	90×176	24.2
	18000	90×186	26.3
	22000	90×231	30.2
	400	1800	51×88
2200		51×103	5.9
2700		64×89	6.9
3300		64×114	7.9
3900		64×114	8.9
4700		64×134	10.0
5600		77×116	12.1
6800		77×136	13.7
8200		90×116	17.2
10000		90×136	19.5
12000		90×176	22.5
15000		90×201	25.5
18000		90×236	28.5

Rated Voltage (Vdc)	Capacitance (μF)	Size φDXL (mm)	Ripple Current (A.r.m.s. 105°C,120Hz)
450	1500	51×88	4.9
	1800	51×103	5.5
	2200	51×133	6.3
	2700	51×143	7.0
	3300	64×114	8.4
	3900	64×134	9.3
	4700	77×116	11.4
	5600	77×136	12.7
	6800	90×116	16.1
	8200	90×146	18.6
	10000	90×176	21.2
	12000	90×201	23.6
	15000	90×241	27.0

**◆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