

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 DXL
 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
	90	54.0	60.0	4.5	6.0	14	31.4
Y type	51	32.5	37.5	4.5	6.0	12	21.8
	64	38.0	43.0	4.5	8.0	14	28.2
	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. 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 (μ F)	Size ϕ DXL (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