

LSC SERIES

105°C High Ripple Current

*Load Life : 105°C 5000 hours.

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)	$I = 3\sqrt{CV}$ 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)	0.25 (20°C, 120Hz)						
Endurance	After applying rated voltage with rated ripple current for 5000 hours at 105°C, the capacitors shall meet the following requirements. <table border="1"> <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.
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	0.80	1.00	1.17	1.23	1.30	1.40

◆PART NUMBER

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

◆DIMENSIONS

		(mm)						
I type	φD	W1	W2	W3	W4	W5	F	
	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	
	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)	Rated Ripple Current (A.r.m.s 105°C, 120Hz)
350	2700	64×104	12.5
	3300	64×114	13.9
	3900	64×129	15.4
	3900	77×101	17.0
	4700	64×149	17.3
	4700	77×111	19.4
	5600	64×174	19.4
	5600	77×126	21.6
	5600	90×104	24.0
	6800	64×204	21.9
	6800	77×151	24.7
	6800	90×119	27.2
	8200	64×244	24.7
	8200	77×171	27.6
	8200	90×134	30.5
	10000	77×206	31.4
	10000	90×159	34.9
	12000	77×241	35.2
	12000	90×184	39.3
	15000	90×219	45.3
400	2200	64×104	11.6
	2700	64×114	12.9
	3300	64×134	14.7
	3300	77×101	16.4
	3900	64×154	16.4
	3900	77×116	18.2
	4700	64×179	18.4
	4700	77×131	20.4
	4700	90×104	22.5
	5600	64×209	20.5
	5600	77×151	22.9
	5600	90×119	25.3
	6800	64×249	23.2
	6800	77×176	25.8
	6800	90×139	28.8
	8200	77×211	29.2
	8200	90×159	32.4
	10000	77×246	33.0
	10000	90×189	37.0
	12000	90×219	41.7

Rated Voltage (Vdc)	Capacitance (μ F)	Size ϕ DXL (mm)	Rated Ripple Current (A.r.m.s 105°C, 120Hz)
450	1800	64×104	10.0
	2200	64×114	11.5
	2700	64×134	13.1
	2700	77×101	14.0
	3300	64×154	14.8
	3300	77×116	15.8
	3900	64×179	16.4
	3900	77×131	17.6
	3900	90×104	19.4
	4700	64×209	18.4
	4700	77×151	19.8
	4700	90×119	21.9
	5600	64×244	20.6
	5600	77×176	22.2
	5600	90×134	24.5
	6800	77×206	25.0
	6800	90×159	28.0
	8200	77×241	28.1
	8200	90×184	31.6
	10000	90×219	36.1

◆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.]

Mouser Electronics

Authorized Distributor

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Rubycon:

<u>350LSC10000MNB77X206</u>	<u>350LSC10000MNB90X159</u>	<u>350LSC12000MNB77X241</u>	<u>350LSC12000MNB90X184</u>
<u>350LSC15000MNB90X219</u>	<u>450LSC8200MNB90X184</u>	<u>450LSC5600MNB64X244</u>	<u>450LSC5600MNB77X176</u>
<u>450LSC5600MNB90X134</u>	<u>450LSC6800MNB77X206</u>	<u>450LSC6800MNB90X159</u>	<u>450LSC8200MNB77X241</u>
<u>450LSC3900MNB64X179</u>	<u>450LSC3900MNB77X131</u>	<u>450LSC3900MNB90X104</u>	<u>450LSC4700MNB64X209</u>
<u>450LSC4700MNB77X151</u>	<u>450LSC4700MNB90X119</u>	<u>450LSC1800MNB64X104</u>	<u>450LSC2200MNB64X114</u>
<u>450LSC2700MNB64X134</u>	<u>450LSC2700MNB77X101</u>	<u>450LSC3300MNB64X154</u>	<u>450LSC3300MNB77X116</u>
<u>400LSC6800MNB64X249</u>	<u>400LSC6800MNB77X176</u>	<u>400LSC6800MNB90X139</u>	<u>400LSC8200MNB77X211</u>
<u>400LSC8200MNB90X159</u>	<u>450LSC10000MNB90X219</u>	<u>400LSC4700MNB64X179</u>	<u>400LSC4700MNB77X131</u>
<u>400LSC4700MNB90X104</u>	<u>400LSC5600MNB64X209</u>	<u>400LSC5600MNB77X151</u>	<u>400LSC5600MNB90X119</u>
<u>400LSC2200MNB64X104</u>	<u>400LSC2700MNB64X114</u>	<u>400LSC3300MNB64X134</u>	<u>400LSC3300MNB77X101</u>
<u>400LSC3900MNB64X154</u>	<u>400LSC3900MNB77X116</u>	<u>350LSC8200MNB64X244</u>	<u>350LSC8200MNB77X171</u>
<u>350LSC8200MNB90X134</u>	<u>400LSC10000MNB77X246</u>	<u>400LSC10000MNB90X189</u>	<u>400LSC12000MNB90X219</u>
<u>350LSC5600MNB64X174</u>	<u>350LSC5600MNB77X126</u>	<u>350LSC5600MNB90X104</u>	<u>350LSC6800MNB64X204</u>
<u>350LSC6800MNB77X151</u>	<u>350LSC6800MNB90X119</u>	<u>350LSC2700MNB64X104</u>	<u>350LSC3300MNB64X114</u>
<u>350LSC3900MNB64X129</u>	<u>350LSC3900MNB77X101</u>	<u>350LSC4700MNB64X149</u>	<u>350LSC4700MNB77X111</u>