

LSQ シリーズ
SERIES

85°C 3000時間品
Load Life : 85°C 3000 hours

RoHS
compliance



◆規格表 / SPECIFICATIONS

項目 Items	特 性 Characteristics																																																																											
カテゴリ温度範囲 Category Temperature Range	-40~+85°C	-25~+85°C																																																																										
定格電圧範囲 Rated Voltage Range	10~100Vdc	160~450Vdc																																																																										
静電容量許容差 Capacitance Tolerance	±20% (20°C, 120Hz)																																																																											
漏れ電流 Leakage Current (MAX)	I=0.02CV又は5mAいずれか小なる値以下 (定格電圧印加5分後) I=0.02CV or 5mA whichever is smaller. (After 5 minutes application of rated voltage) I=漏れ電流(μA) Leakage Current C=静電容量(μF) Capacitance V=定格電圧(Vdc) Rated Voltage																																																																											
損失角の正接 (tanδ) Dissipation Factor (MAX)	<table border="1"> <thead> <tr> <th>Vdc \ φD</th> <th>36</th> <th>51</th> <th>64</th> <th>77</th> <th>90</th> <th>Vdc \ φD</th> <th>36</th> <th>51</th> <th>64</th> <th>77</th> <th>90</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.75</td> <td>1.0</td> <td>1.3</td> <td>1.5</td> <td>1.5</td> <td>63</td> <td>0.2</td> <td>0.25</td> <td>0.3</td> <td>0.4</td> <td>0.4</td> <td rowspan="6"></td> </tr> <tr> <td>16</td> <td>0.6</td> <td>0.7</td> <td>0.8</td> <td>1.0</td> <td>1.0</td> <td>80</td> <td>0.2</td> <td>0.2</td> <td>0.25</td> <td>0.3</td> <td>0.3</td> </tr> <tr> <td>25</td> <td>0.4</td> <td>0.5</td> <td>0.7</td> <td>0.8</td> <td>0.8</td> <td>100</td> <td>0.15</td> <td>0.2</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>35</td> <td>0.3</td> <td>0.5</td> <td>0.6</td> <td>0.7</td> <td>0.7</td> <td>160~250</td> <td>0.15</td> <td>0.15</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> </tr> <tr> <td>50</td> <td>0.25</td> <td>0.3</td> <td>0.5</td> <td>0.6</td> <td>0.6</td> <td>350~450</td> <td>0.2</td> <td>0.2</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> </tbody> </table>		Vdc \ φD	36	51	64	77	90	Vdc \ φD	36	51	64	77	90	(20°C, 120Hz)	10	0.75	1.0	1.3	1.5	1.5	63	0.2	0.25	0.3	0.4	0.4		16	0.6	0.7	0.8	1.0	1.0	80	0.2	0.2	0.25	0.3	0.3	25	0.4	0.5	0.7	0.8	0.8	100	0.15	0.2	0.25	0.25	0.25	35	0.3	0.5	0.6	0.7	0.7	160~250	0.15	0.15	0.2	0.2	0.2	50	0.25	0.3	0.5	0.6	0.6	350~450	0.2	0.2	0.25	0.25	0.25
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耐 久 性 Endurance	<p>85°C中で3000時間定格電圧(リップル重畳)印加後、下記項目を満足すること。 After applying rated voltage with rated ripple current for 3000 hours at 85°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>静電容量変化率 Capacitance Change</td> <td>初期値の±15%以内 Within ±15% of the initial value.</td> </tr> <tr> <td>損失角の正接 Dissipation Factor</td> <td>規格値の175%以下 Not more than 175% of the specified value.</td> </tr> <tr> <td>漏れ電流 Leakage Current</td> <td>規格値以下 Not more than the specified value.</td> </tr> </table>		静電容量変化率 Capacitance Change	初期値の±15%以内 Within ±15% of the initial value.	損失角の正接 Dissipation Factor	規格値の175%以下 Not more than 175% of the specified value.	漏れ電流 Leakage Current	規格値以下 Not more than the specified value.																																																																				
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高温無負荷特性 Shelf Life	<p>85°C中で500時間無負荷放置した後、JIS C 5101-4 4.1項の電圧処理を行い下記を満足すること。 After storage for 500 hours with no voltage applied at 85°C, the capacitors shall be subjected to the voltage treatment in JIS C 5101-4 item 4.1 and shall be meet the following requirements.</p> <table border="1"> <tr> <td>静電容量変化率 Capacitance Change</td> <td>初期値の±15%以内 Within ±15% of the initial value.</td> </tr> <tr> <td>損失角の正接 Dissipation Factor</td> <td>規格値の150%以下 Not more than 150% of the specified value.</td> </tr> <tr> <td>漏れ電流 Leakage Current</td> <td>規格値以下 Not more than the specified value.</td> </tr> </table>		静電容量変化率 Capacitance Change	初期値の±15%以内 Within ±15% of the initial value.	損失角の正接 Dissipation Factor	規格値の150%以下 Not more than 150% of the specified value.	漏れ電流 Leakage Current	規格値以下 Not more than the specified value.																																																																				
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◆リップル電流補正係数 / MULTIPLIER FOR RIPPLE CURRENT

周波数(Hz) Frequency	60(50)	120(100)	300	500	1k	10k≤
10~50Vdc	0.80	1.00	1.03	1.04	1.05	1.08
63~100Vdc	0.80	1.00	1.04	1.05	1.07	1.10
160~450Vdc	0.80	1.00	1.06	1.10	1.13	1.18

◆呼称方法 / PART NUMBER

LSQ M D×L
 定格電圧 シリーズ名 静電容量 静電容量許容差 副記号 バンド記号 ケースサイズ
 Rated Voltage Series Capacitance Capacitance Tolerance Option Clamp Code Case Size

◆寸法図 / DIMENSIONS

	φD	W1	W2	W3	W4	W5	F
I type	36	24.0	30.0	3.5	7.0	10	12.7
	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	

◆標準品一覧表 / STANDARD SIZE

Cap(μF) \ Vdc	10		16		25		35		50		63		80		
3300													36×50	2.5	
3900													36×50	2.6	
4700													36×50	2.8	
5600												36×50	3.0	36×63	2.9
6800									36×50	3.3	36×50	3.2	36×83	3.7	
8200									36×50	3.7	36×63	3.8	36×83	4.2	
10000							36×50	3.6	36×50	4.3	36×83	4.1	36×98	5.0	
12000							36×50	3.7	36×63	5.3	36×83	4.4	36×118	5.4	
15000							36×50	4.0	36×83	5.5	36×98	5.5	51×83	7.7	
18000					36×50	5.0	36×63	4.7	36×83	5.7	36×118	6.2	51×83	7.8	
22000					36×63	5.4	36×83	5.6	36×98	6.1	51×83	7.1	51×83	8.0	
27000			36×50	5.1	36×83	5.8	36×83	6.2	36×118	6.7	51×83	7.4	51×98	8.7	
33000			36×63	5.5	36×83	6.0	36×83	6.3	51×83	7.1	51×98	8.8	51×118	10.5	
39000	36×50	5.3	36×83	7.0	36×83	6.7	36×98	7.6	51×83	7.4	51×118	10.0	64×99	12.1	
47000	36×63	6.0	36×83	7.3	36×98	8.0	36×118	8.7	51×98	8.7	64×99	11.9	64×99	14.4	
56000	36×83	6.3	36×98	7.6	36×118	8.4	51×83	10.0	51×98	9.8	64×99	12.6	64×119	15.0	
68000	36×83	7.9	36×98	10.3	51×83	9.3	51×83	10.8	51×118	12.0	64×119	15.0	64×139	16.8	
82000	36×83	8.4	36×118	10.5	51×83	10.0	51×98	12.0	64×99	12.3	77×101	16.4	77×121	19.4	
100000	36×118	9.3	51×83	10.9	51×98	12.0	51×118	13.6	64×119	14.2	77×121	18.9	77×141	21.5	
120000	51×83	10.0	51×98	11.1	51×118	12.9	64×99	13.8	64×119	16.0	77×141	21.6	90×141	22.3	
150000	51×83	11.0	51×98	12.6	64×99	15.3	64×99	14.6	77×121	18.6	90×141	26.0			
180000	51×98	12.1	51×118	13.2	64×99	15.5	64×119	16.7	77×141	19.5					
220000	51×98	14.0	64×99	14.7	64×119	18.0	77×101	17.4	90×141	23.3					
270000	51×118	14.2	64×119	15.4	77×101	18.8	77×141	23.1	90×141	24.8					
330000	64×99	17.3	64×139	18.3	77×121	23.2	77×151	25.9							
390000	64×119	18.0	77×121	19.0	77×141	23.5	90×141	26.5							
470000	64×139	19.3	77×141	22.0	90×141	24.7	90×151	28.3							
560000	77×121	20.1	77×151	23.0	90×141	26.2									
680000	77×141	24.0													

Cap(μF) \ Vdc	100		160		200		250		350		400		450	
270											36×50	1.3	36×50	1.6
330											36×50	1.7	36×63	1.8
390									36×50	1.9	36×63	1.8	36×83	2.2
470							36×50	1.6	36×63	2.1	36×83	2.3	36×83	2.4
560							36×50	1.6	36×83	2.4	36×83	2.7	36×98	2.8
680					36×50	1.6	36×50	1.7	36×83	2.9	36×98	2.9	36×118	3.1
820					36×50	1.7	36×63	1.8	36×98	3.4	36×98	3.4	51×83	3.6
1000					36×63	2.2	36×83	2.4	36×98	3.8	36×118	3.9	51×83	4.0
1200			36×50	2.3	36×63	2.3	36×83	2.4	36×118	4.2	51×83	4.2	51×98	4.8
1500			36×63	3.2	36×83	2.9	36×98	3.1	51×83	4.7	51×98	4.8	51×118	5.7
1800			36×83	3.4	36×83	2.9	36×118	3.4	51×98	6.3	51×98	5.7	64×99	6.5
2200	36×50	2.5	36×83	3.6	36×98	3.6	51×83	3.9	51×98	6.4	51×118	7.0	64×99	7.2
2700	36×50	2.7	36×98	3.8	36×118	4.0	51×83	4.0	64×99	8.8	64×99	7.9	64×119	8.7
3300	36×50	3.2	36×118	4.7	51×83	4.6	51×98	5.4	64×99	8.8	64×119	9.5	77×121	10.5
3900	36×63	3.3	51×83	5.3	51×83	4.7	51×118	6.0	64×119	10.3	77×101	10.7	77×121	12.0
4700	36×83	3.5	51×83	5.6	51×98	7.1	64×99	7.3	77×101	12.0	77×121	12.8	77×141	13.3
5600	36×83	3.8	51×98	6.4	51×118	8.3	64×99	7.3	77×121	12.7	77×141	14.5	90×141	15.8
6800	36×98	4.5	51×98	7.5	64×99	9.5	64×119	8.9	77×141	16.0	77×151	17.5	90×151	18.7
8200	36×118	6.0	51×118	8.1	64×99	10.0	77×101	8.9	90×141	19.0	90×141	18.0		
10000	36×118	6.3	64×99	9.9	64×119	11.1	77×121	11.8	90×141	20.0	90×151	20.5		
12000	51×83	6.6	64×119	10.8	77×101	11.6	77×141	13.1						
15000	51×83	8.5	77×101	12.7	77×121	12.9	90×141	16.5						
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56000	77×141	16.2												
68000	77×151	18.3												
82000	90×141	20.1												
100000	90×141	21.0												

↑ リプル電流 Ripple Current (A r.m.s./120Hz, 85°C)
↑ ケースサイズ Case Size φD×L(mm)

◆ネジの締め付けトルクと許容電流値 / Tightening torque of bolt and Permissible current of terminal

取り付けバンドネジ Clamp Bolt	推奨締め付けトルク Recommended Tightening torque
M3	0.6 [N·m]
M4	1.3 [N·m]

端子 Terminal	推奨締め付けトルク(許容値) Recommended Tightening torque (Permissible Range)	端子許容電流 Permissible Current of Terminal
M5	2.2(1.5~3.2) [N·m]	60 [A r.m.s.]

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