

LSU シリーズ  
SERIES

85°C 5000時間品  
Load Life : 85°C 5000 hours

RoHS  
compliance



◆規格表 / SPECIFICATIONS

| 項目 Items                                  | 特 性 Characteristics   |                               |   |                              |  |                         |   |      |      |      |      |         |      |      |      |      |
|---|---|-------------------------------|---|------------------------------|--|-------------------------|---|------|------|------|------|---------|------|------|------|------|
| カテゴリ温度範囲<br>Category Temperature Range    | -25~+85°C   |                               |   |                              |  |                         |   |      |      |      |      |         |      |      |      |      |
| 定格電圧範囲<br>Rated Voltage Range             | 350~580Vdc  |                               |   |                              |  |                         |   |      |      |      |      |         |      |      |      |      |
| 静電容量許容差<br>Capacitance Tolerance          | ±20% (20°C, 120Hz)  |                               |   |                              |  |                         |   |      |      |      |      |         |      |      |      |      |
| 漏れ電流<br>Leakage Current (MAX)             | I=3√CV または5mAいずれか小なる値以下 (定格電圧印加5分後)<br>I=3√CV or 5mA whichever is smaller. (After 5 minutes application of rated voltage)<br>I=漏れ電流(μA)                      C=静電容量(μF)                      V=定格電圧(Vdc)<br>Leakage Current                      Capacitance                      Rated Voltage   |                               |   |                              |  |                         |   |      |      |      |      |         |      |      |      |      |
| 損失角の正接 (tanδ)<br>Dissipation Factor (MAX) | <table border="1"> <thead> <tr> <th>Vdc \ φD</th> <th>51</th> <th>64</th> <th>77</th> <th>90</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> </tr> <tr> <td>500~580</td> <td>0.25</td> <td>0.30</td> <td>0.30</td> <td>0.30</td> </tr> </tbody> </table> <p>(20°C, 120Hz)</p>   | Vdc \ φD                      | 51  | 64                           | 77   | 90                      | 350~450                                     | 0.20 | 0.25 | 0.25 | 0.25 | 500~580 | 0.25 | 0.30 | 0.30 | 0.30 |
| Vdc \ φD                                  | 51  | 64                            | 77  | 90                           |  |                         |   |      |      |      |      |         |      |      |      |      |
| 350~450                                   | 0.20  | 0.25                          | 0.25  | 0.25                         |  |                         |   |      |      |      |      |         |      |      |      |      |
| 500~580                                   | 0.25  | 0.30                          | 0.30  | 0.30                         |  |                         |   |      |      |      |      |         |      |      |      |      |
| 耐 久 性<br>Endurance                        | 85°C中で5000時間 (580Vdc:3000時間) 定格電圧 (リプル重畳) 印加後、下記項目を満足すること。<br>After applying rated voltage with rated ripple current for 5000 hours (580Vdc:3000 hours). at 85°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>静電容量変化率<br/>Capacitance Change</td> <td>初期値の±20%以内<br/>Within ±20% of the initial value.</td> </tr> <tr> <td>損失角の正接<br/>Dissipation Factor</td> <td>規格値の200%以下<br/>Not more than 200% of the specified value.</td> </tr> <tr> <td>漏れ電流<br/>Leakage Current</td> <td>規格値以下<br/>Not more than the specified value.</td> </tr> </tbody> </table> | 静電容量変化率<br>Capacitance Change | 初期値の±20%以内<br>Within ±20% of the initial value. | 損失角の正接<br>Dissipation Factor | 規格値の200%以下<br>Not more than 200% of the specified value. | 漏れ電流<br>Leakage Current | 規格値以下<br>Not more than the specified value. |      |      |      |      |         |      |      |      |      |
| 静電容量変化率<br>Capacitance Change             | 初期値の±20%以内<br>Within ±20% of the initial value.   |                               |   |                              |  |                         |   |      |      |      |      |         |      |      |      |      |
| 損失角の正接<br>Dissipation Factor              | 規格値の200%以下<br>Not more than 200% of the specified value.  |                               |   |                              |  |                         |   |      |      |      |      |         |      |      |      |      |
| 漏れ電流<br>Leakage Current                   | 規格値以下<br>Not more than the specified value.   |                               |   |                              |  |                         |   |      |      |      |      |         |      |      |      |      |

◆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 ≤ |      |
|--------------------|------------|-----------|------|------|------|-------|------|
| 係数<br>Coefficient  | 350~450Vdc | 0.80      | 1.00 | 1.17 | 1.23 | 1.30  | 1.40 |
|                    | 500~580Vdc | 0.80      | 1.00 | 1.15 | 1.20 | 1.25  | 1.30 |

◆呼称方法 / PART NUMBER

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

◆寸法図 / DIMENSIONS

(I type)

(Y type)

(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 |

**◆標準品一覧表 / STANDARD SIZE**

| 定格電圧<br>Rated Voltage<br>(Vdc) | 静電容量<br>Capacitance<br>( $\mu$ F) | 外形寸法<br>Size<br>$\phi$ DXL (mm) | リップル電流<br>Ripple Current<br>(A.r.m.s 85°C, 120Hz) |
|--------------------------------|-----------------------------------|---------------------------------|---|
| 350                            | 1800                              | 51×98                           | 7.8   |
|                                | 2200                              | 51×118                          | 8.7   |
|                                | 2700                              | 51×138                          | 9.8   |
|                                | 3300                              | 51×148                          | 10.8  |
|                                | 3900                              | 64×119                          | 12.9  |
|                                | 4700                              | 64×139                          | 14.3  |
|                                | 5600                              | 77×121                          | 17.8  |
|                                | 6800                              | 64×189                          | 17.7  |
|                                | 6800                              | 77×141                          | 19.8  |
|                                | 8200                              | 77×151                          | 21.8  |
|                                | 8200                              | 90×121                          | 25.8  |
|                                | 10000                             | 77×191                          | 24.6  |
|                                | 10000                             | 90×141                          | 28.8  |
|                                | 12000                             | 90×191                          | 30.6  |
|                                | 15000                             | 90×191                          | 36.2  |
|                                | 18000                             | 90×221                          | 40.1  |
| 400                            | 1500                              | 51×98                           | 6.9   |
|                                | 1800                              | 51×118                          | 7.7   |
|                                | 2200                              | 51×138                          | 8.6   |
|                                | 2700                              | 51×148                          | 9.5   |
|                                | 3300                              | 64×119                          | 11.5  |
|                                | 3900                              | 64×139                          | 12.7  |
|                                | 4700                              | 64×149                          | 13.8  |
|                                | 4700                              | 77×121                          | 15.8  |
|                                | 5600                              | 64×189                          | 15.4  |
|                                | 5600                              | 77×141                          | 17.5  |
|                                | 6800                              | 77×151                          | 19.2  |
|                                | 6800                              | 90×121                          | 22.9  |
|                                | 8200                              | 77×191                          | 21.4  |
|                                | 8200                              | 90×141                          | 25.4  |
|                                | 10000                             | 90×151                          | 27.9  |
|                                | 12000                             | 90×191                          | 31.5  |
| 15000                          | 90×221                            | 35.8                            |   |
| 18000                          | 90×241                            | 38.9                            |   |
| 450                            | 1200                              | 51×98                           | 6.5   |
|                                | 1500                              | 51×118                          | 7.4   |
|                                | 1800                              | 51×138                          | 8.3   |
|                                | 2200                              | 64×119                          | 10.1  |
|                                | 2700                              | 64×139                          | 11.3  |
|                                | 3300                              | 64×149                          | 12.5  |
|                                | 3900                              | 77×121                          | 15.3  |
|                                | 4700                              | 77×141                          | 17.0  |
|                                | 4700                              | 90×121                          | 18.1  |
|                                | 5600                              | 77×151                          | 17.4  |
|                                | 6800                              | 77×191                          | 19.2  |
|                                | 6800                              | 90×141                          | 21.0  |
|                                | 8200                              | 90×191                          | 25.1  |
|                                | 10000                             | 90×221                          | 27.9  |
|                                | 12000                             | 90×241                          | 30.0  |

| 定格電圧<br>Rated Voltage<br>(Vdc) | 静電容量<br>Capacitance<br>( $\mu$ F) | 外形寸法<br>Size<br>$\phi$ DXL (mm) | リップル電流<br>Ripple Current<br>(A.r.m.s 85°C, 120Hz) |
|--------------------------------|-----------------------------------|---------------------------------|---|
| 500                            | 1200                              | 51×98                           | 5.6   |
|                                | 1500                              | 51×118                          | 6.3   |
|                                | 1800                              | 51×148                          | 7.1   |
|                                | 2200                              | 64×119                          | 8.5   |
|                                | 2700                              | 64×139                          | 9.6   |
|                                | 3300                              | 64×149                          | 10.5  |
|                                | 3900                              | 77×131                          | 13.3  |
|                                | 4700                              | 77×151                          | 14.8  |
|                                | 4700                              | 90×121                          | 17.8  |
|                                | 5600                              | 90×131                          | 19.5  |
|                                | 6800                              | 77×191                          | 18.1  |
|                                | 6800                              | 90×151                          | 21.7  |
|                                | 8200                              | 90×191                          | 24.5  |
|                                | 10000                             | 90×221                          | 27.4  |
|                                | 12000                             | 90×241                          | 30.1  |
|                                | 550                               | 1800                            | 64×119  |
| 2200                           |                                   | 64×139                          | 6.8   |
| 2700                           |                                   | 64×149                          | 7.5   |
| 3300                           |                                   | 77×131                          | 9.4   |
| 3900                           |                                   | 77×151                          | 10.4  |
| 4700                           |                                   | 77×171                          | 11.5  |
| 4700                           |                                   | 90×131                          | 13.6  |
| 5600                           |                                   | 77×191                          | 12.7  |
| 5600                           |                                   | 90×151                          | 15.2  |
| 6800                           |                                   | 90×191                          | 17.3  |
| 580                            | 8200                              | 90×221                          | 19.4  |
|                                | 10000                             | 90×241                          | 21.6  |
|                                | 1500                              | 64×119                          | 5.6   |
|                                | 1800                              | 64×139                          | 6.3   |
|                                | 2200                              | 64×149                          | 7.1   |
|                                | 2700                              | 77×131                          | 8.8   |
|                                | 3300                              | 77×151                          | 9.9   |
|                                | 3900                              | 77×171                          | 11.0  |
|                                | 3900                              | 90×131                          | 12.9  |
|                                | 4700                              | 77×191                          | 12.2  |
| 4700                           | 90×151                            | 14.5                            |   |
| 5600                           | 90×191                            | 16.3                            |   |
| 6800                           | 90×221                            | 18.4                            |   |
| 8200                           | 90×241                            | 20.4                            |   |

**◆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<br>Clamp Bolt | 推奨締め付けトルク<br>Recommended Tightening torque |
|-------------------------|--|
| M3                      | 0.6 [N·m]                                  |
| M4                      | 1.3 [N·m]                                  |

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