

LSQ 系列

SERIES

螺栓端子型85℃ 3000小时品
85℃ 3000 hours, Screw Terminal Type

◆ 特 长 / FEATURES

- 85℃、3000小时品。
Load Life : 85℃ 3000 hours.
- RoHS指令对应品。
RoHS compliance.



◆ 规格表 / SPECIFICATIONS

| 项 目 | Items | 特 性 | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|-------------------------------|---|------------------------------|--|--------------------------|---|----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|------|-----|-----|-----|-----|---|---------|----|----|----|----|----|----|-----|------|-----|-----|-----|----|-----|-----|------|-----|-----|-----|------|-----|------|------|------|---------|------|------|-----|-----|-----|---------|-----|-----|------|------|------|--------------|
| 工作温度范围 Category Temperature Range | | -40 ~ +85℃ | -25 ~ +85℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 额定电压范围 Rated Voltage Range | | 10 ~ 100V.DC | 160 ~ 450V.DC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 静电容量允许差 Capacitance Tolerance | | ±20% (20℃, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损失角正切值 (tan δ) Dissipation Factor(MAX) | | <table border="1"> <thead> <tr> <th>WV \ φD</th> <th>36</th> <th>51</th> <th>64</th> <th>77</th> <th>90</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> </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> </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> </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> </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> </tr> </tbody> </table> | WV \ φD | 36 | 51 | 64 | 77 | 90 | 10 | 0.75 | 1.0 | 1.3 | 1.5 | 1.5 | 16 | 0.6 | 0.7 | 0.8 | 1.0 | 1.0 | 25 | 0.4 | 0.5 | 0.7 | 0.8 | 0.8 | 35 | 0.3 | 0.5 | 0.6 | 0.7 | 0.7 | 50 | 0.25 | 0.3 | 0.5 | 0.6 | 0.6 | <table border="1"> <thead> <tr> <th>WV \ φD</th> <th>36</th> <th>51</th> <th>64</th> <th>77</th> <th>90</th> </tr> </thead> <tbody> <tr> <td>63</td> <td>0.2</td> <td>0.25</td> <td>0.3</td> <td>0.4</td> <td>0.4</td> </tr> <tr> <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>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>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>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> | WV \ φD | 36 | 51 | 64 | 77 | 90 | 63 | 0.2 | 0.25 | 0.3 | 0.4 | 0.4 | 80 | 0.2 | 0.2 | 0.25 | 0.3 | 0.3 | 100 | 0.15 | 0.2 | 0.25 | 0.25 | 0.25 | 160~250 | 0.15 | 0.15 | 0.2 | 0.2 | 0.2 | 350~450 | 0.2 | 0.2 | 0.25 | 0.25 | 0.25 | (20℃, 120Hz) |
| WV \ φD | 36 | 51 | 64 | 77 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 0.75 | 1.0 | 1.3 | 1.5 | 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 0.6 | 0.7 | 0.8 | 1.0 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 0.4 | 0.5 | 0.7 | 0.8 | 0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 0.3 | 0.5 | 0.6 | 0.7 | 0.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 0.25 | 0.3 | 0.5 | 0.6 | 0.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WV \ φD | 36 | 51 | 64 | 77 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | 0.2 | 0.25 | 0.3 | 0.4 | 0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 0.2 | 0.2 | 0.25 | 0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 0.15 | 0.2 | 0.25 | 0.25 | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160~250 | 0.15 | 0.15 | 0.2 | 0.2 | 0.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350~450 | 0.2 | 0.2 | 0.25 | 0.25 | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏 电 流 Leakage Current(MAX) | | 小于I=0.02CV和5mA中的较小值 (施加额定电压5分钟后) I=0.02CV or 5mA whichever is smaller. (After 5 minutes application of rated voltage) I=漏电流 (μA) C=静电容量 (μF) V=额定电压 (V) Leakage Current Capacitance Rated Voltage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 耐 久 性 Endurance | | 在85℃环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载3000小时后, 满足以下各项要求。 After applying rated voltage with rated ripple current for 3000 hours at 85℃, the capacitors shall meet the following requirements. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 漏 电 流 Leakage Current | 规格值以下 Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 高 温 无 负 荷 特 性 Shelf Life | | 在85℃中无负荷放置500小时, 进行JIS C 5101-4 4.1项的电压处理后, 满足以下各项。 After storage for 500 hours with no voltage applied at 85℃, the capacitors shall be subjected to the voltage treatment in JIS C 5101-4 item 4.1 and shall be meet the following requirements. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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◆ 纹波电流修正系数 / MULTIPLIER FOR RIPPLE CURRENT

频率系数 Frequency Coefficient

| 频率 (Hz) Frequency | 60(50) | 120 | 400 | 1k | 10k≤ |
|-------------------|--------|------|------|------|------|
| 10~50WV | 0.80 | 1.00 | 1.03 | 1.05 | 1.08 |
| 63~100WV | 0.80 | 1.00 | 1.05 | 1.07 | 1.10 |
| 160~450WV | 0.80 | 1.00 | 1.10 | 1.13 | 1.18 |

◆ 产品型号体系 / PART NUMBER

LSQ M D×L
 额定电压 系列名称 静电容量 静电容量允许差 副记号 固定带记号 铝壳尺寸
 Rated Voltage Series Capacitance Capacitance Tolerance Option Clamp Code Case Size

◆ 电容器尺寸图 / Dimensions in mm (not to scale)



