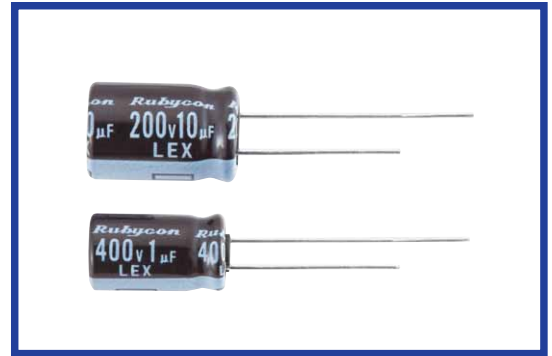


**LEX SERIES**
**Load Life: 125°C 4000~5000 hours**
**◆FEATURES**

- Ultra Long Life.
- For LED Lighting.
- RoHS compliance.


**◆SPECIFICATIONS**

| Items  | Characteristics   |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
|--|---|---|---------------------|-----------------|-------------------|------|------------------------|------------------|------|------|------|------|------------------|---|---|----|----|
| Category Temperature Range   | -40~+125°C  |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| Rated Voltage Range  | 160~400Vdc  |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| Capacitance Tolerance  | ±20% (20°C, 120Hz)  |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| Leakage Current(MAX)   | CV ≤ 1000   | CV > 1000   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
|  | I=0.1CV+40µA (1minute)<br>I=0.03CV+15µA (5minutes)  | I=0.04CV+100µA (1minute)<br>I=0.02CV+25µA (5minutes)  |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| I=Leakage Current(µA)<br>C=Capacitance(µF)<br>V=Rated Voltage(Vdc) |   |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| (tanδ)<br>Dissipation Factor(MAX)                                  | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>160</th> <th>200</th> <th>250</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> </tr> </tbody> </table> (20°C, 120Hz)  |   | Rated Voltage (Vdc) | 160             | 200               | 250  | 400                    | tanδ             | 0.24 | 0.24 | 0.24 | 0.24 |                  |   |   |    |    |
| Rated Voltage (Vdc)  | 160   | 200   | 250                 | 400             |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| tanδ   | 0.24  | 0.24  | 0.24                | 0.24            |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| Endurance  | After applying rated voltage with rated ripple current for specified time at 125°C, the capacitors shall meet the following requirements.   |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
|  | Capacitance Change  | Within ±30% of the initial value.   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
|  | Dissipation Factor  | Not more than 300% of the specified value.  |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| Leakage Current  |   | Not more than the specified value.  |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
|  |   | <table border="1"> <thead> <tr> <th>Case Size</th> <th>Life Time (hrs)</th> </tr> </thead> <tbody> <tr> <td>6.3×11, 8×9, 10×9</td> <td>4000</td> </tr> <tr> <td>8×11.5, 10×12.5, 10×16</td> <td>5000</td> </tr> </tbody> </table> | Case Size           | Life Time (hrs) | 6.3×11, 8×9, 10×9 | 4000 | 8×11.5, 10×12.5, 10×16 | 5000             |      |      |      |      |                  |   |   |    |    |
| Case Size  | Life Time (hrs)   |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| 6.3×11, 8×9, 10×9  | 4000  |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| 8×11.5, 10×12.5, 10×16   | 5000  |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| Low Temperature Stability Impedance Ratio(MAX)                     | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>160</th> <th>200</th> <th>250</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>8</td> <td>10</td> <td>12</td> </tr> </tbody> </table> (120Hz) |   | Rated Voltage (Vdc) | 160             | 200               | 250  | 400                    | Z(-25°C)/Z(20°C) | 3    | 3    | 6    | 6    | Z(-40°C)/Z(20°C) | 8 | 8 | 10 | 12 |
|  | Rated Voltage (Vdc)   | 160   | 200                 | 250             | 400               |      |                        |                  |      |      |      |      |                  |   |   |    |    |
|  | Z(-25°C)/Z(20°C)  | 3   | 3                   | 6               | 6                 |      |                        |                  |      |      |      |      |                  |   |   |    |    |
| Z(-40°C)/Z(20°C)   | 8   | 8   | 10                  | 12              |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |
|  |   |   |                     |                 |                   |      |                        |                  |      |      |      |      |                  |   |   |    |    |

**◆MULTIPLIER FOR RIPPLE CURRENT**

| Frequency (Hz) |          | 120 | 1k  | 10k | 100k ≤ |
|----------------|----------|-----|-----|-----|--------|
| Coefficient    | 1~5.6µF  | 1.0 | 1.6 | 1.8 | 2.0    |
|                | 6.8~18µF | 1.0 | 1.5 | 1.7 | 1.9    |
|                | 22~33µF  | 1.0 | 1.4 | 1.6 | 1.8    |

**◆OPTION**

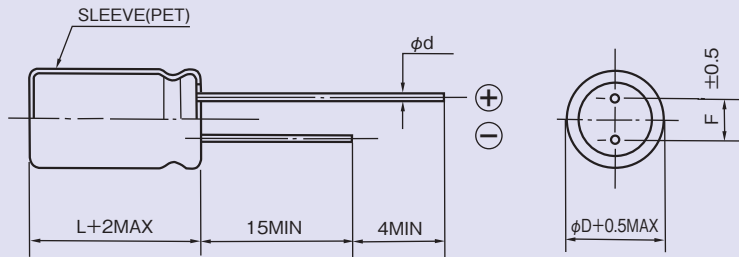
|            | Code |
|------------|------|
| PET Sleeve | EFC  |

**◆PART NUMBER**

|               |        |             |                       |        |              |           |
|---------------|--------|-------------|-----------------------|--------|--------------|-----------|
| □□□           | LEX    | □□□□□       | M                     | □□□    | □□           | D×L       |
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

◆ DIMENSIONS

(mm)



|          |     |     |    |
|----------|-----|-----|----|
| $\phi D$ | 6.3 | 8   | 10 |
| $\phi d$ | 0.5 | 0.6 |    |
| F        | 2.5 | 3.5 | 5  |

◆ STANDARD SIZE

| Rated Voltage (Vdc) | Capacitance ( $\mu F$ ) | Size $\phi D \times L$ (mm) | Rated Ripple Current (mA r.m.s., 125°C) |        |
|---------------------|-------------------------|-----------------------------|---|--------|
|                     |                         |                             | 120Hz                                   | 100kHz |
| 160                 | 5.6                     | 6.3×11                      | 52                                      | 104    |
|                     | 10                      | 8×9                         | 70                                      | 133    |
|                     | 15                      | 8×11.5                      | 92                                      | 174    |
|                     |                         | 10×9                        | 95                                      | 180    |
|                     | 22                      | 10×12.5                     | 121                                     | 217    |
|                     | 33                      | 10×16                       | 158                                     | 284    |
| 200                 | 2.2                     | 6.3×11                      | 36                                      | 72     |
|                     | 3.3                     | 6.3×11                      | 42                                      | 84     |
|                     | 4.7                     | 6.3×11                      | 49                                      | 98     |
|                     | 5.6                     | 8×9                         | 56                                      | 112    |
|                     | 6.8                     | 8×9                         | 62                                      | 117    |
|                     | 8.2                     | 8×9                         | 66                                      | 125    |
|                     | 10                      | 8×11.5                      | 80                                      | 152    |
|                     | 12                      | 10×9                        | 88                                      | 167    |
|                     | 18                      | 10×12.5                     | 113                                     | 214    |
|                     | 27                      | 10×16                       | 149                                     | 268    |

| Rated Voltage (Vdc) | Capacitance ( $\mu F$ ) | Size $\phi D \times L$ (mm) | Rated Ripple Current (mA r.m.s., 125°C) |        |
|---------------------|-------------------------|-----------------------------|---|--------|
|                     |                         |                             | 120Hz                                   | 100kHz |
| 250                 | 1.8                     | 6.3×11                      | 33                                      | 66     |
|                     | 2.2                     | 6.3×11                      | 36                                      | 72     |
|                     | 3.3                     | 6.3×11                      | 42                                      | 84     |
|                     | 4.7                     | 8×9                         | 53                                      | 106    |
|                     | 5.6                     | 8×11.5                      | 56                                      | 112    |
|                     | 6.8                     | 8×11.5                      | 68                                      | 129    |
|                     | 8.2                     | 10×9                        | 76                                      | 144    |
|                     | 10                      | 10×12.5                     | 83                                      | 157    |
|                     | 12                      | 10×12.5                     | 97                                      | 184    |
|                     | 18                      | 10×16                       | 127                                     | 241    |
| 400                 | 1                       | 6.3×11                      | 24                                      | 48     |
|                     | 1.2                     | 8×9                         | 28                                      | 56     |
|                     | 1.5                     | 8×9                         | 30                                      | 60     |
|                     | 1.8                     | 8×9                         | 33                                      | 66     |
|                     | 2.2                     | 8×9                         | 36                                      | 72     |
|                     |                         | 8×11.5                      | 40                                      | 80     |
|                     | 2.7                     | 8×11.5                      | 43                                      | 86     |
|                     | 3.3                     | 8×11.5                      | 47                                      | 94     |
|                     |                         | 10×9                        | 48                                      | 96     |
|                     | 3.9                     | 10×12.5                     | 57                                      | 114    |
|                     | 4.7                     | 10×12.5                     | 61                                      | 122    |
|                     | 6.8                     | 10×16                       | 85                                      | 161    |