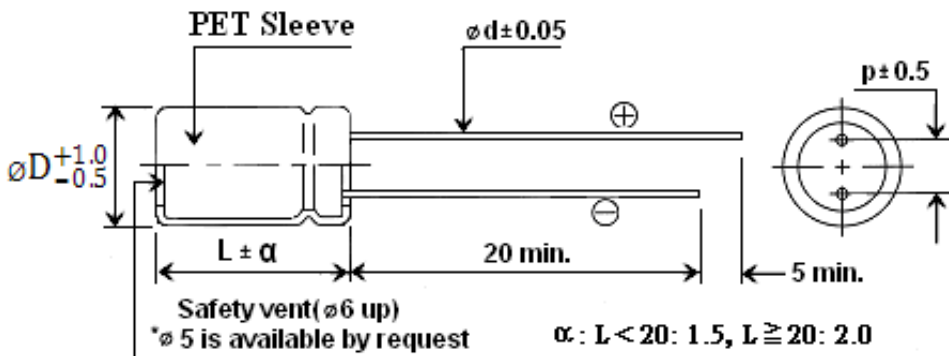


- EFL series capacitors are suitable for electronic ballast and energy saving lamp..
- Load life 105°C, 8000 ~ 10000 hours assured.

Characteristics

| Voltage Range | 160 ~450V | | | | | | | | | | | | |
|--|--|-----------|------|------|------|------|---|--------|-----------|---|------|------|-------|
| Temperature Range | -40 ~ + 105°C | | | | | | | | | | | | |
| Capacitance Range | 0.1 to 330 uF | | | | | | | | | | | | |
| Leakage Current | $I \leq 0.04CV + 100\mu A$, whichever is greater (After 1 minutes) | | | | | | | | | | | | |
| Capacitance Tolerance | $\pm 20\%$ at 120Hz, 20°C(10% Tol. is available upon request) | | | | | | | | | | | | |
| Dissipation Factor | W.V. | 160 | 200 | 250 | 350 | 400 | 450 | | | | | | |
| | tanδ | 0.10 | 0.10 | 0.10 | 0.12 | 0.12 | 0.12 | | | | | | |
| Low Temperature Characteristics (120Hz) | W.V. | 160 | 200 | 250 | 350 | 400 | 450 | | | | | | |
| | Z-25°C / Z+20°C | 3 | 3 | 3 | 5 | 5 | 6 | | | | | | |
| | Z-40°C / Z+20°C | 6 | 6 | 6 | 6 | 6 | 8 | | | | | | |
| Load life | Test condition Duration time :As right Ambient temperature :+105°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change: $\leq \pm 20\%$ of the initial measured value Dissipation factor: $\leq 200\%$ of the initial specified value Leakage current : \leq The initial specified value | | | | | | <table border="1"> <tr> <th>φ (mm)</th> <th>Life(hrs)</th> </tr> <tr> <td>8</td> <td>8000</td> </tr> <tr> <td>≥ 10</td> <td>10000</td> </tr> </table> For standard size | φ (mm) | Life(hrs) | 8 | 8000 | ≥ 10 | 10000 |
| | φ (mm) | Life(hrs) | | | | | | | | | | | |
| 8 | 8000 | | | | | | | | | | | | |
| ≥ 10 | 10000 | | | | | | | | | | | | |
| Shelf life (at 105°C) | Test conditions Duration time : 1000Hrs Ambient temperature :+105°C Applied voltage : None After test requirement at +20°C: Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes. | | | | | | | | | | | | |

Drawing



| Dφ | 5 | 6.3 | 8 | 10 | 13 | 16 | 18 |
|----|-----|-----|-----|-----|-----|-----|-----|
| p | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| dφ | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 |

Ripple Current Coefficients

| Frequency(Hz) | 120 | 1K | 10K | ≥100K |
|---------------|------|------|------|-------|
| Multiplier | 0.50 | 0.80 | 0.85 | 1.0 |

Multiplier for R.C. vs Temperature

| Temp.(°C) | 45 | 60 | 70 | 85 | 95 | 105 |
|-------------|------|------|------|------|------|------|
| Multiplier. | 2.10 | 1.90 | 1.65 | 1.40 | 1.25 | 1.00 |

Dimensions, Maximum Permissible Ripple Current & Impedance

| WV Cap(μF) | 160 | | 200 | | 250 | | 350 | | 400 | | 450 | |
|---------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 1.0 | | | | | | | 8X11.5 | 80 | 10X12.5 | 85 | 10X12.5 | 90 |
| 2.2 | | | | | | | 10X12.5 | 85 | 10X12.5 | 90 | 10X12.5 | 95 |
| 3.3 | | | | | 8X11.5 | 80 | 10X12.5 | 90 | 10X16 | 100 | 10X16 | 110 |
| 4.7 | | | | | 10X12.5 | 105 | 10X16 | 105 | 10X20 | 115 | 10X20 | 125 |
| 6.8 | | | 10X12.5 | 105 | 10X12.5 | 110 | 10X16 | 115 | 10X20 | 125 | 10X20 | 135 |
| 10 | 10X16 | 125 | 10X16 | 125 | 10X16 | 140 | 10X20 | 150 | 13X20 | 170 | 13X20 | 185 |
| 22 | 10X20 | 200 | 10X20 | 200 | 13X20 | 200 | 13X20 | 260 | 13X25 | 270 | 16X21 | 290 |
| 33 | 10X20 | 250 | 13X20 | 260 | 13X20 | 320 | 13X25 | 360 | 16X25 | 370 | 16X25 | 390 |
| 47 | 13X20 | 300 | 13X20 | 390 | 13X25 | 390 | 16X25 | 430 | 16X31.5 | 470 | 18X31.5 | 480 |
| 68 | 13X20 | 470 | 16X21 | 470 | 16X25 | 520 | 18X25 | 560 | 18X31.5 | 580 | 18X41 | 630 |
| 100 | 16X21 | 580 | 16X25 | 630 | 16X31.5 | 680 | 18X35.5 | 700 | 18X41 | 790 | 18X45 | 850 |
| 150 | 16X25 | 690 | 18X25 | 840 | 18X35.5 | 860 | 18X45 | 960 | | | | |
| 220 | 18X31.5 | 980 | 18X35.5 | 1050 | 18X45 | 1130 | | | | | | |
| 330 | 18X41 | 1250 | 18X35.5 | 1610 | 18X45 | 930 | | | | | | |