

- Warranty of 20,000 hours at 85°C

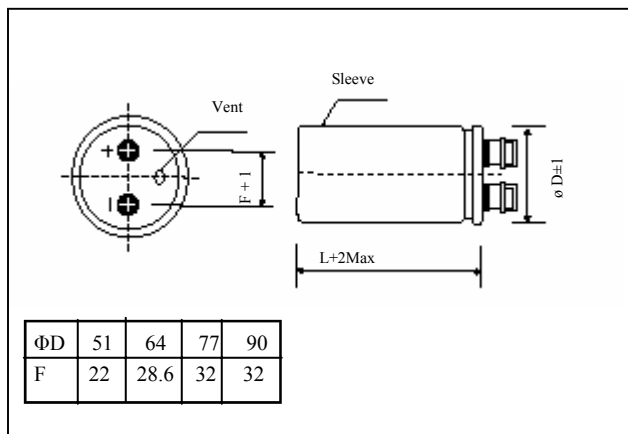


■ SPECIFICATIONS

| Item | Characteristics | | | | | | | | |
|--|---|-----------------------------------|-------------|-----------------|-----------------------------------|--------------------|----------------------------------|--------------------|---|
| Rated Voltage Range (V) | 350,400,450V | | | | | | | | |
| Operating Temperature Range (°C) | -40° C~+85°C | | | | | | | | |
| Capacitance Tolerance(25°C,120Hz) | ±20% | | | | | | | | |
| Leakage Current(μ A) | 0.01CV or 5mA, whichever is smaller, (at 20°C, after 5 minutes) where C: Nominal Capacitance (μ F), V: Rated Voltage (V) | | | | | | | | |
| Dissipation Factor (20°C, 120Hz) | 0.15 | | | | | | | | |
| Load Life (+85°C) | <table border="1"> <tr> <td>Time</td> <td>20000 hours</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the specified value</td> </tr> <tr> <td>Capacitance change</td> <td>Within ±15% of the initial value</td> </tr> <tr> <td>Dissipation factor</td> <td>Not more than 175% of the specified value</td> </tr> </table> | Time | 20000 hours | Leakage current | Not more than the specified value | Capacitance change | Within ±15% of the initial value | Dissipation factor | Not more than 175% of the specified value |
| | Time | 20000 hours | | | | | | | |
| | Leakage current | Not more than the specified value | | | | | | | |
| | Capacitance change | Within ±15% of the initial value | | | | | | | |
| Dissipation factor | Not more than 175% of the specified value | | | | | | | | |
| Shelf Life (+85°C) | <table border="1"> <tr> <td>Time</td> <td>1000 hours</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the specified value</td> </tr> <tr> <td>Capacitance change</td> <td>Within ±15% of the initial value</td> </tr> <tr> <td>Dissipation factor</td> <td>Not more than 175% of the specified value</td> </tr> </table> | Time | 1000 hours | Leakage current | Not more than the specified value | Capacitance change | Within ±15% of the initial value | Dissipation factor | Not more than 175% of the specified value |
| | Time | 1000 hours | | | | | | | |
| | Leakage current | Not more than the specified value | | | | | | | |
| | Capacitance change | Within ±15% of the initial value | | | | | | | |
| Dissipation factor | Not more than 175% of the specified value | | | | | | | | |
| *After test:(V) to be applied for 60 minutes, 24 to 48 hours before measurement. | | | | | | | | | |

■ DIMENSIONS

mm



■ MULTIPLIER FOR RIPPLE CURRENT

| Frequency coefficient | | | | | |
|-----------------------|-------|-----|-----|-----|------|
| Frequency (Hz) | 50,60 | 120 | 300 | 1K | ≥10K |
| Factor | 0.7 | 1.0 | 1.1 | 1.3 | 1.4 |

| Temperature coefficient | | | | |
|-------------------------|------|------|------|------|
| Temperature (°C) | + 40 | + 60 | + 70 | + 85 |
| Factor | 2.44 | 2.16 | 2.00 | 1.00 |

■ STANDARD RATINGS

| Rated Voltage (V.DC) | Surge Voltage (V.DC) | Rated Capacitance (μ F) | Leakage Current MAX(mA) | Dissipation Factor MAX | Ripple Current 85°C 120Hz (Arms) | Size Φ DxL |
|-------------------------|-------------------------|---------------------------------|----------------------------|---------------------------|-------------------------------------|--------------------|
| 350 | 400 | 1000 | 3.5 | 0.15 | 3.8 | 51x75 |
| | | 1200 | 5.2 | 0.15 | 4.2 | 51x75 |
| | | 1500 | 5.0 | 0.15 | 5.2 | 51x96 |
| | | 1800 | 5.0 | 0.15 | 5.6 | 51x96 |
| | | 2200 | 5.0 | 0.15 | 7.1 | 51x130 |
| | | 2700 | 5.0 | 0.15 | 7.6 | 64x96 |
| | | 3300 | 5.0 | 0.15 | 9.0 | 64x115 |
| | | 3900 | 5.0 | 0.15 | 10.3 | 64x130 |
| | | 4700 | 5.0 | 0.15 | 12.2 | 64x155 |
| | | | 5.0 | 0.15 | 11.5 | 77x115 |
| | | 5600 | 5.0 | 0.15 | 14.6 | 64x195 |
| | | | 5.0 | 0.15 | 13.1 | 77x130 |
| | | 6800 | 5.0 | 0.15 | 15.5 | 77x155 |
| | | 8200 | 5.0 | 0.15 | 18.1 | 90x157 |
| | | 10000 | 5.0 | 0.15 | 19.9 | 90x157 |
| | | 12000 | 5.0 | 0.15 | 23.8 | 90x196 |
| 15000 | 5.0 | 0.15 | 28.8 | 90x236 | | |
| 400 | 450 | 1000 | 4.0 | 0.15 | 3.8 | 51x75 |
| | | 1200 | 4.8 | 0.15 | 4.6 | 51x96 |
| | | 1500 | 5.0 | 0.15 | 5.5 | 51x115 |
| | | 1800 | 5.0 | 0.15 | 6.4 | 51x130 |
| | | 2200 | 5.0 | 0.15 | 6.9 | 64x96 |
| | | 2700 | 5.0 | 0.15 | 8.2 | 64x115 |
| | | 3300 | 5.0 | 0.15 | 9.5 | 64x130 |
| | | 3900 | 5.0 | 0.15 | 11.1 | 64x155 |
| | | | 5.0 | 0.15 | 10.4 | 77x115 |

■ STANDARD RATINGS

| Rated Voltage (V.DC) | Surge Voltage (V.DC) | Rated Capacitance (μ F) | Leakage Current MAX(mA) | Dissipation Factor MAX | Ripple Current 85°C 120Hz (Arms) | Size ΦDxL |
|----------------------|----------------------|-------------------------|-------------------------|------------------------|----------------------------------|-----------|
| 400 | 450 | 4700 | 5.0 | 0.15 | 13.4 | 64x195 |
| | | | 5.0 | 0.15 | 12.0 | 77x130 |
| | | 5600 | 5.0 | 0.15 | 14.6 | 64x195 |
| | | | 5.0 | 0.15 | 14.4 | 77x155 |
| | | 6800 | 5.0 | 0.15 | 16.5 | 90x157 |
| | | 8200 | 5.0 | 0.15 | 18.1 | 90x157 |
| | | 10000 | 5.0 | 0.15 | 21.7 | 90x196 |
| | | 12000 | 5.0 | 0.15 | 25.8 | 90x236 |
| 450 | 500 | 1000 | 4.5 | 0.15 | 4.2 | 51x96 |
| | | 1200 | 5.0 | 0.15 | 5.0 | 51x115 |
| | | 1500 | 5.0 | 0.15 | 5.8 | 51x130 |
| | | 1800 | 5.0 | 0.15 | 6.2 | 64x96 |
| | | 2200 | 5.0 | 0.15 | 7.4 | 64x115 |
| | | 2700 | 5.0 | 0.15 | 8.6 | 64x130 |
| | | | 5.0 | 0.15 | 8.7 | 77x115 |
| | | 3300 | 5.0 | 0.15 | 10.2 | 64x155 |
| | | | 5.0 | 0.15 | 10.0 | 77x130 |
| | | 3900 | 5.0 | 0.15 | 12.2 | 64x195 |
| | | 4700 | 5.0 | 0.15 | 12.9 | 77x155 |
| | | 5600 | 5.0 | 0.15 | 15.4 | 77x195 |
| | | | 5.0 | 0.15 | 14.9 | 90x157 |
| | | 6800 | 5.0 | 0.15 | 18.0 | 90x196 |
| | | 8200 | 5.0 | 0.15 | 19.8 | 90x196 |
| | | 10000 | 5.0 | 0.15 | 23.5 | 90x236 |

*Ripple current should be under 60 Arms