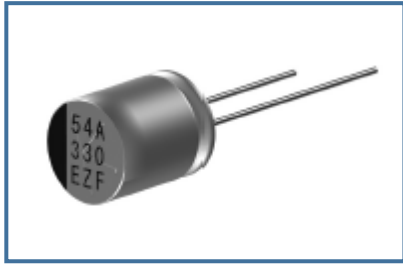


Rubycon **HYBRID POLYMER CAPACITORS** **PZF**

PZF SERIES

UPGRADE



- Radial Lead Type
- Load life : 4000 hours at 125°C
- AEC-Q200 , 85°C/85% RH , RoHS Compliant

◆ SPECIFICATIONS

| Item | Characteristics | | | | | | | | | | | | | | |
|---|---|---------------------|-----------------------------------|--------------------|--|---------------|--|-----------------|------------------------------------|------|------|------|------|------|--|
| Category Temperature Range | -55~+125°C | | | | | | | | | | | | | | |
| Rated Voltage Range | 25~80Vdc | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | |
| Leakage Current (MAX) | I=0.01CV or 3 μ A After 2 minutes (whichever is greater.) I=(μ A) Leakage Current C=(μ F) Capacitance V=(Vdc) Rated Voltage | | | | | | | | | | | | | | |
| Dissipation Factor (MAX) | <table border="1"> <thead> <tr> <th>(Vdc) Rated Voltage</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> <td></td> </tr> </tbody> </table> | (Vdc) Rated Voltage | 25 | 35 | 50 | 63 | 80 | (20°C, 120Hz) | tan δ | 0.14 | 0.12 | 0.10 | 0.08 | 0.08 | |
| (Vdc) Rated Voltage | 25 | 35 | 50 | 63 | 80 | (20°C, 120Hz) | | | | | | | | | |
| tan δ | 0.14 | 0.12 | 0.10 | 0.08 | 0.08 | | | | | | | | | | |
| Endurance (Life) | After applying rated voltage with rated ripple current for 4000 hours at 125°C, the capacitors shall meet the following Criteria. | | | | | | | | | | | | | | |
| Biased Humidity/Temperature 85°C/85%RH | After applying rated voltage for 2000 hours at 85°C and humidity of ,85%, the capacitors shall meet the following Criteria . | | | | | | | | | | | | | | |
| Criteria | <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>ESR</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table> | Capacitance Change | Within ±30% of the initial value. | Dissipation Factor | Not more than 200% of the specified value. | ESR | Not more than 200% of the specified value. | Leakage Current | Not more than the specified value. | | | | | | |
| Capacitance Change | Within ±30% of the initial value. | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 200% of the specified value. | | | | | | | | | | | | | | |
| ESR | Not more than 200% of the specified value. | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio (MAX) | Z(-55°C)/Z(+20°C) ≤ 2.0 (100kHz) Z(-25°C)/Z(+20°C) ≤ 1.5 | | | | | | | | | | | | | | |

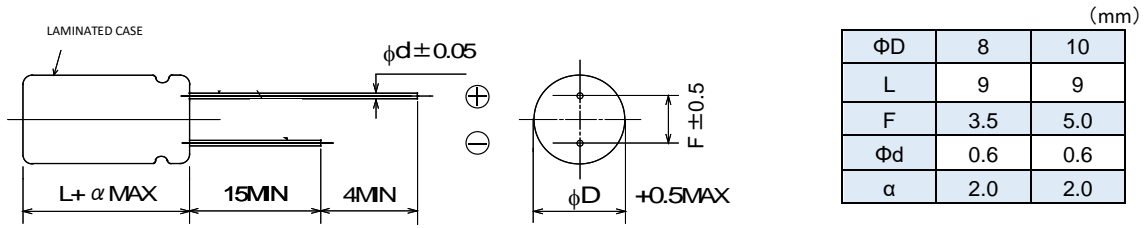
◆ PART NUMBER CONSTRUCTION

| | | | | | |
|---------------|--------|-------------|-----------------------|--------|-----------|
| □□□ | PZF | □□□ | M | □□□ | φDxL |
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Case Size |

*Specifications subject to change without notice.

Rubycon **HYBRID POLYMER CAPACITORS** **PZF**

◆ DIMENTIONS



◆ Standard size

| Rated Voltage (V) | Capacitance (μF) | Size φ D × L (mm) | Dissipation Factor (MAX) 120Hz, 20°C | Leakage Current (uA/2min) | E.S.R (mΩ MAX) | | Rated Ripple Current (mA rms/ 125°C, 100kHz) |
|-------------------|------------------|-------------------|--------------------------------------|---------------------------|----------------|--------------|--|
| | | | | | 20°C, 100kHz | -40°C, 10kHz | |
| 25 | 220 | 8 × 9 | 0.14 | 55.0 | 27 | 41 | 1600 |
| | 330 | 10 × 9 | 0.14 | 82.5 | 20 | 30 | 2000 |
| 35 | 150 | 8 × 9 | 0.12 | 52.5 | 27 | 41 | 1600 |
| | 270 | 10 × 9 | 0.12 | 94.5 | 20 | 30 | 2000 |
| 50 | 68 | 8 × 9 | 0.10 | 34.0 | 30 | 45 | 1250 |
| | 100 | 10 × 9 | 0.10 | 50.0 | 28 | 42 | 1600 |
| 63 | 33 | 8 × 9 | 0.08 | 20.8 | 40 | 60 | 1100 |
| | 56 | 10 × 9 | 0.08 | 35.3 | 30 | 45 | 1400 |
| NEW 80 | 22 | 8 × 9 | 0.08 | 17.6 | 45 | 68 | 1100 |
| | 39 | 10 × 9 | 0.08 | 31.2 | 35 | 53 | 1200 |

◆ FREQUENCY CORRECTION COEFFICIENT FOR RIPPLE CURRENT

| f (Hz) Frequency | 120 | 1k | 10k | 100k≤ |
|------------------|------|------|------|-------|
| Coefficient | 0.05 | 0.30 | 0.70 | 1.00 |

*Specifications subject to change without notice.