

PF series Long Life to 5,000Hours



Features

- ◆ Super Long Life to 5,000Hours.
- ◆ Low ESR at high frequency range.

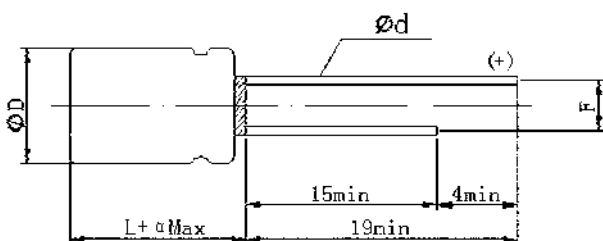
Specifications

| Item | Performance Characteristics | |
|---|-----------------------------------|---|
| Operating Temp. Range | -55°C ~ +105°C | |
| Capacitance Range | 180 ~ 2500 μF | |
| Capacitance Tolerance | M : ±20% | |
| Rated Voltage Range | 2.5V ~ 10V DC | |
| Dissipation Factor (at 120Hz, 20°C) | Not to exceed the value specified | |
| Leakage Current | ≤ 0.2CV (μA, after 2 minutes) | |
| ESR (100K~300KHz) | Not to exceed the value specified | |
| Endurance 105°C · 5000h · at rated voltage | Capacitance Change | Within ±20% of the value before test |
| | Leakage current | Not to exceed the value specified |
| | ESR | Not to exceed 150% of the value specified |
| | Dissipation Factor | Not to exceed 150% of the value specified |
| Moisture Resistance Stored at 60°C · RH90~95% · 1000h | Capacitance Change | Within ±20% of the value before test |
| | Leakage Current | Not to exceed the value specified |
| | ESR | Not to exceed 150% of the value specified |
| | Dissipation Factor | Not to exceed 150% of the value specified |

Frequency Coefficient for Ripple Current

| Frequency | 120Hz ≤ freq. < 1KHz | 1KHz ≤ freq. < 10KHz | 10KHz ≤ freq. < 100KHz | 100KHz ≤ freq. < 300KHz |
|-------------|----------------------|----------------------|------------------------|-------------------------|
| Coefficient | 0.05 | 0.3 | 0.7 | 1 |

Diagram of Dimensions:(unit:mm)



| φ D × L | φ D + 0.5max. | α | F ± 0.5 | φ d ± 0.05 |
|-----------|---------------|-----|---------|------------|
| 6.3 × 11 | 6.3 | 1.5 | 2.5 | 0.6 |
| 8 × 8 | 8.0 | 1.0 | 3.5 | 0.6 |
| 8 × 11.5 | 8.0 | 1.5 | 3.5 | 0.6 |
| 10 × 12.5 | 10.0 | 1.5 | 5.0 | 0.6 |

Size List

| | | φ D×L(mm) | | | | |
|--------------------|--------------|------------------------|------------------|----------------|-----------------------|--|
| WV (SV) Cap(μF) | 2.5 (2.8) | 4 (4.6) | 6.3 (7.2) | 10 (11.5) | 16 (18.4) | |
| 100 | | | | | 6.3×11 | |
| 180 | | | 8×8 / 8×11.5 | | 6.3×11 / 8×8 / 8×11.5 | |
| 220 | | | 8×8 / 8×11.5 | | 8×8 / 8×11.5 | |
| 270 | | | 8×8 / 8×11.5 | | 8×8 / 8×11.5 | |
| 330 | | | 8×8 / 8×11.5 | | 8×11.5 / 10×12.5 | |
| 390 | | | 8×8 / 8×11.5 | 8×8 / 8×11.5 | 10×12.5 | |
| 470 | | | 8×8 / 8×11.5 | 8×8 / 8×11.5 | 10×12.5 | |
| 560 | | 8×8 / 8×11.5 | 8×8 / 8×11.5 | 8×8 / 8×11.5 | 10×12.5 | |
| 680 | | 8×8 / 8×11.5 | 8×8 / 8×11.5 | 8×11.5/10×12.5 | | |
| 820 | 8×8 / 8×11.5 | 8×8 / 8×11.5 / 10×12.5 | 8×8 / 8×11.5 | 10×12.5 | | |
| 1000 | 8×8 / 8×11.5 | 8×11.5 | 8×11.5 / 10×12.5 | 10×12.5 | | |
| 1200 | 8×8 / 8×11.5 | 8×11.5 / 10×12.5 | 8×11.5 / 10×12.5 | | | |
| 1500 | 8×11.5 | 10×12.5 | 10×12.5 | | | |
| 2000 | 10×12.5 | 10×12.5 | 10×12.5 | | | |
| 2500 | 10×12.5 | 10×12.5 | | | | |
| 2700 | 10×12.5 | | | | | |

Ripple Current (mA, rms) at 105°C, 100KHz

Characteristics List

φ D×L(mm)

| W.V. (V) | Capacitance (μF) | L.C. (μA,2min) | tg δ (120Hz,20°C) | ESR (mΩ,100kHz) | Maximum Permissible Ripple Current(mA,r.m.s) | Size φD×L(mm) |
|-------------|---------------------|-------------------|----------------------|--------------------|---|------------------|
| 2.5 | 820 | 410 | 0.08 | 7 | 6100 | 8×8 |
| | 820 | 410 | 0.08 | 7 | 6100 | 8×11.5 |
| | 1200 | 600 | 0.08 | 7 | 6100 | 8×11.5 |
| | 1500 | 750 | 0.08 | 7 | 6100 | 8×11.5 |
| | 2000 | 1000 | 0.08 | 7 | 6640 | 10×12.5 |
| | 2500 | 1250 | 0.08 | 7 | 6640 | 10×12.5 |
| | 2700 | 1350 | 0.08 | 7 | 6640 | 10×12.5 |
| 4.0 | 560 | 224 | 0.08 | 7 | 6100 | 8×8 |
| | 560 | 224 | 0.08 | 7 | 6100 | 8×11.5 |
| | 680 | 272 | 0.08 | 7 | 6100 | 8×8 |
| | 680 | 272 | 0.08 | 7 | 6100 | 8×11.5 |
| | 820 | 328 | 0.08 | 7 | 6100 | 8×11.5 |
| | 820 | 328 | 0.08 | 7 | 6100 | 10×12.5 |
| | 1000 | 800 | 0.08 | 7 | 6100 | 8×11.5 |
| | 1200 | 960 | 0.08 | 7 | 6100 | 8×11.5 |
| | 1200 | 960 | 0.08 | 7 | 6640 | 10×12.5 |
| | 1500 | 1200 | 0.08 | 7 | 6640 | 10×12.5 |
| | 2000 | 1600 | 0.08 | 7 | 6640 | 10×12.5 |
| 6.3 | 390 | 491.4 | 0.08 | 7 | 6100 | 8×8 |
| | 390 | 491.4 | 0.08 | 7 | 6100 | 8×11.5 |
| | 470 | 592 | 0.08 | 7 | 6100 | 8×8 |
| | 470 | 592 | 0.08 | 7 | 6100 | 8×11.5 |
| | 560 | 705.6 | 0.08 | 7 | 6100 | 8×8 |
| | 560 | 705.6 | 0.08 | 7 | 6100 | 8×11.5 |
| | 680 | 428 | 0.08 | 7 | 6100 | 8×11.5 |
| | 820 | 516.6 | 0.10 | 7 | 6100 | 8×11.5 |
| | 1000 | 630 | 0.10 | 7 | 6640 | 10×12.5 |
| | 1200 | 756 | 0.10 | 7 | 6100 | 8×11.5 |
| | 1200 | 756 | 0.10 | 7 | 6640 | 10×12.5 |
| | 1500 | 945 | 0.10 | 7 | 6640 | 10×12.5 |
| | 2000 | 1260 | 0.10 | 7 | 6640 | 10×12.5 |
| 10 | 470 | 470 | 0.08 | 7 | 6100 | 8×11.5 |
| | 560 | 560 | 0.10 | 7 | 6100 | 8×11.5 |
| | 680 | 680 | 0.10 | 7 | 6640 | 10×12.5 |
| | 820 | 820 | 0.10 | 7 | 6640 | 10×12.5 |
| | 1000 | 1000 | 0.10 | 7 | 6640 | 10×12.5 |
| 16 | 100 | 160 | 0.08 | 12 | 4800 | 6.3×11 |
| | 180 | 288 | 0.08 | 9 | 5600 | 8×11.5 |
| | 220 | 352 | 0.08 | 9 | 5600 | 8×11.5 |
| | 270 | 432 | 0.08 | 9 | 5600 | 8×11.5 |
| | 330 | 528 | 0.08 | 9 | 5600 | 8×11.5 |
| | 330 | 528 | 0.08 | 9 | 6100 | 10×12.5 |
| | 390 | 624 | 0.08 | 9 | 6100 | 10×12.5 |
| | 470 | 752 | 0.10 | 9 | 6100 | 10×12.5 |
| 560 | 896 | 0.10 | 9 | 6100 | 10×12.5 | |

Ripple Current (mA, rms) at 105°C, 100KHz