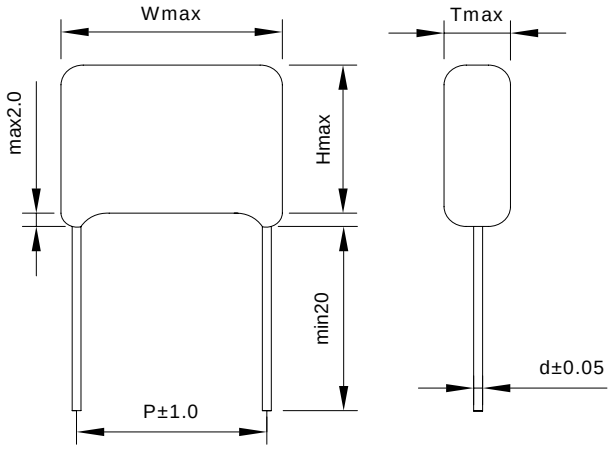
# 无感箔式聚丙烯薄膜电容器 PPN




●特征及用途：

1.高频损耗小
2.内部温升小
3.容量、损耗受温度变化小
4.优异的阻燃性能
5.优异的防潮性能容量和损耗因素高稳定性
6.在相同温度及频率，串连等效电阻低。
7.用于开关电源，灯饰类产品，电焊机和校正电容器等。

## ■ 技术参数 Technical Specifications

| 项目 Items | 性能要求 Characteristics | | |
|---|---|---|---|
| 引用标准 Reference Standard | GB 10188 (IEC60384-13) | | |
| 气候类别 Climatic Category | 40/105/21 | | |
| 额定温度 Rate Temperature | 85℃ | | |
| 工作温度范围<br>Operating Temperature Range | -40~105℃<br>（+85℃to +105℃:decreasing factor 1.25% per ℃ for $V_R$(DC)） | | |
| 额定电压 Rated Voltage | 100V 250V 400V 630V | | |
| 电容量范围 Capacitance Range | 0.01μF～0.47μF | | |
| 电容量偏 Capacitance Tolerance | ±5%(J)；±10%(K） (1kHz) | | |
| 耐电压 Voltage Proof | 2.0$U_R$(5S) | | |
| 损耗角正切 Dissipation Factor | ≤10×$10^{-4}$ (20℃;1kHz) | | |
| 绝缘电阻 Insulation Resistance | ≥100GΩ | $C_R$ ≤0.1 μF | 20℃,100VDC,1min |
| | ≥100000S | $C_R$ >0.1 μF | |

## ■ 外形尺寸 Dimensions（mm）

| 电容量μF | 100VDC | | | | | 250VDC | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Wmax | Hmax | Tmax | P±1.0 | d±0.05 | Wmax | Hmax | Tmax | P±1.0 | d±0.05 |
| 0.001 | 13 | 9.5 | 5.5 | 10 | 0.6 | 13 | 10 | 6 | 10 | 0.6 |
| 0.0022 | 13 | 9.5 | 5.5 | 10 | 0.6 | 13 | 10 | 6 | 10 | 0.6 |
| 0.0033 | 13 | 10 | 6.5 | 10 | 0.6 | 13 | 10 | 6 | 10 | 0.6 |
| 0.0047 | 13 | 10 | 6.5 | 10 | 0.6 | 13 | 11.5 | 6 | 10 | 0.6 |
| 0.0068 | 13 | 11 | 7 | 10 | 0.6 | 13 | 12 | 7 | 10 | 0.6 |
| 0.01 | 13 | 11.5 | 7 | 10 | 0.6 | 13 | 13 | 8 | 10 | 0.6 |
| 0.015 | 18 | 11.5 | 6 | 15 | 0.8 | 18 | 12.5 | 7 | 15 | 0.8 |
| 0.018 | 18 | 11.5 | 6.5 | 15 | 0.8 | 18 | 12.5 | 7.5 | 15 | 0.8 |
| 0.022 | 18 | 12 | 7.5 | 15 | 0.8 | 18 | 13.5 | 8 | 15 | 0.8 |
| 0.027 | 18 | 13.5 | 7 | 15 | 0.8 | 18 | 15 | 8 | 15 | 0.8 |
| 0.033 | 18 | 14 | 7.5 | 15 | 0.8 | 23 | 15 | 8 | 20 | 0.8 |
| 0.039 | 18 | 14.5 | 8 | 15 | 0.8 | 23 | 15.5 | 8.5 | 20 | 0.8 |
| 0.047 | 18 | 15.5 | 8.5 | 15 | 0.8 | 23 | 16 | 9 | 20 | 0.8 |
| 0.056 | 23 | 16.5 | 8 | 20 | 0.8 | 23 | 17.5 | 9 | 20 | 0.8 |
| 0.068 | 23 | 17 | 8.5 | 20 | 0.8 | 23 | 18.5 | 10 | 20 | 0.8 |
| 0.082 | 23 | 17.5 | 9 | 20 | 0.8 | 23 | 19 | 11 | 20 | 0.8 |
| 0.1 | 23 | 18 | 10 | 20 | 0.8 | 30 | 18 | 10 | 27.5 | 0.8 |
| 0.15 | 25 | 21 | 11 | 22.5 | 0.8 | 30 | 21 | 13 | 27.5 | 0.8 |
| 0.22 | 30 | 23 | 11 | 27.5 | 0.8 | 30 | 25 | 13.5 | 27.5 | 0.8 |
| 0.27 | 30 | 25 | 13 | 27.5 | 0.8 | 30 | 26 | 14 | 27.5 | 0.8 |
| 0.33 | 30 | 26 | 15 | 27.5 | 0.8 | 30 | 27 | 15 | 27.5 | 0.8 |
| 0.39 | 30 | 28 | 17 | 27.5 | 0.8 | 30 | 29 | 17 | 27.5 | 0.8 |
| 0.47 | 30 | 29 | 18 | 27.5 | 0.8 | 30 | 30 | 20 | 27.5 | 0.8 |
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| 电容量μF | 400VDC | | | | | 630VDC | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Wmax | Hmax | Tmax | P±1.0 | d±0.05 | Wmax | Hmax | Tmax | P±1.0 | d±0.05 |
| 0.001 | 13 | 10 | 6 | 10 | 0. 6 | 13 | 10 | 6 | 10 | 0. 6 |
| 0.0022 | 13 | 11 | 6. 5 | 10 | 0.6 | 13 | 11. 5 | 6. 5 | 10 | 0.6 |
| 0.0033 | 13 | 12 | 7. 5 | 10 | 0.6 | 13 | 12 | 7. 5 | 10 | 0.6 |
| 0.0047 | 13 | 13 | 8. 5 | 10 | 0.6 | 18 | 13 | 7. 5 | 15 | 0.8 |
| 0.0068 | 18 | 12. 5 | 7 | 15 | 0.8 | 18 | 15 | 8 | 15 | 0.8 |
| 0.01 | 18 | 14. 5 | 7. 5 | 15 | 0.8 | 23 | 15. 5 | 8. 5 | 20 | 0.8 |
| 0.015 | 23 | 15 | 8 | 20 | 0.8 | 23 | 16. 5 | 10 | 20 | 0.8 |
| 0.018 | 23 | 15. 5 | 8. 5 | 20 | 0.8 | 23 | 18. 5 | 10 | 20 | 0.8 |
| 0.022 | 23 | 16 | 9 | 20 | 0.8 | 23 | 19 | 11. 5 | 20 | 0.8 |
| 0.027 | 23 | 17. 5 | 9. 5 | 20 | 0.8 | 23 | 20 | 14 | 20 | 0.8 |
| 0.033 | 23 | 18. 5 | 10 | 20 | 0.8 | 30 | 19. 5 | 11 | 27. 5 | 0.8 |
| 0.039 | 23 | 19 | 11 | 20 | 0.8 | 30 | 20 | 12 | 27. 5 | 0.8 |
| 0.047 | 23 | 20 | 11. 5 | 20 | 0.8 | 30 | 21 | 13 | 27. 5 | 0.8 |
| 0.056 | 30 | 19 | 11 | 27. 5 | 0.8 | 30 | 22 | 14 | 27. 5 | 0.8 |
| 0.068 | 30 | 20 | 12 | 27. 5 | 0.8 | 30 | 23. 5 | 15 | 27. 5 | 0.8 |
| 0.082 | 30 | 22 | 12 | 27. 5 | 0.8 | | | | | |
| 0.1 | 30 | 23 | 13. 5 | 27. 5 | 0.8 | | | | | |
| 0.15 | | | | | | | | | | |
| 0.22 | | | | | | | | | | |
| 0.27 | | | | | | | | | | |
| 0.33 | | | | | | | | | | |
| 0.39 | | | | | | | | | | |
| 0.47 | | | | | | | | | | |
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备注：特殊需要可根据客户要求另行设计