



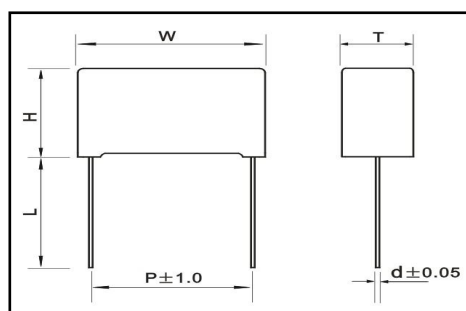
Compact fluorescent light capacitor CBB21-B(MPB)

Metallized Polypropylene Film Capacitor –Box Type: CBB21-B

为无感结构，用金属化聚酯膜作为电介质/电极绕制或叠片而成，导线采用镀锡铜包钢线，使用环氧树脂密封在塑壳内。

Are non-inductively wound or stacked with metallized polypropylene film as dielectric/electrode with copper-clad steel leads and encapsulated in a plastic case sealed with epoxy resin.

◆ **外形图: Outline Drawing:**



◆ **特性:**

- 损耗因素小、绝缘电阻高
- 高频损耗小/内部温升小
- 塑料外壳，阻燃环氧填充

◆ **Features:**

- Low dissipation factor high insulation resistance.
- Low loss at high frequency/Small inherent temperature rise.
- Plastic case(UL94 V-0), Epoxy resin sealing.

◆ **主要用途:**

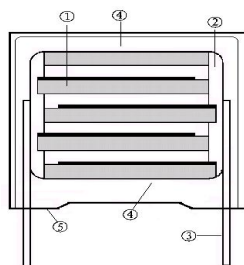
- 高压、大电流的脉冲电路中。
- 电子照明（如电子镇流器、E-HID）
- 高频交流负荷。
- 彩电的 S 校正电路设计，应急灯、开关电源、定时、振荡回路。

◆ **Typical Applications:**

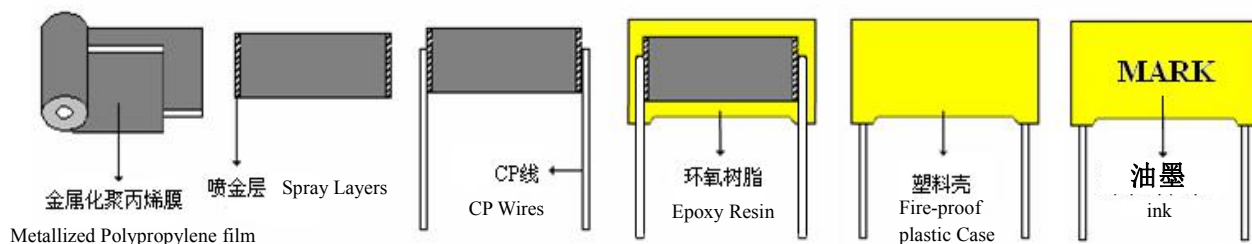
- Pus applications with high A.C. voltage and high current.
- Electric lighting (i.e. Electric ballast, E-HID)
- High-frequencies A.C. loads.
- TV S-correct circuit design, emergency light, switch power, timing, oscillation loop, CFL, CCFL

◆ **结构图:**

structure chart:



- | | |
|--------------|-------------------------------|
| ① 金属化聚丙烯膜 | Metallized Polypropylene film |
| ② 喷金层 | Spray Layers |
| ③ CP 线 | CP Wires |
| ④ 环氧树脂 | Epoxy Resin |
| ⑤ PBT 阻燃塑料外壳 | Fire-proof plastic Case |



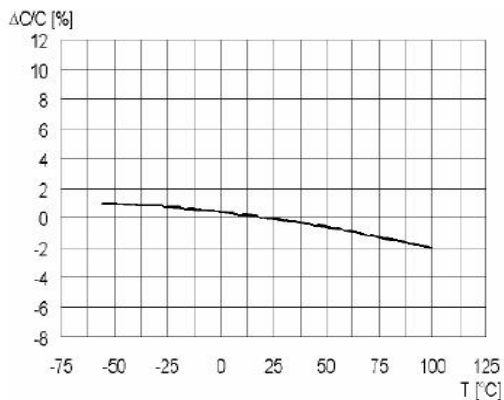
◆ 性能说明：
Specification:

| | |
|---|---|
| 参考标准 Reference Standards: | GB10190-88 (IEC60384-16) |
| 额定电压 Rated Voltage(UR): | 100VDC; 250VDC; 400VDC; 630VDC; 1000VDC |
| 气候类别 Climate Category | 40/125/21 |
| 额定温度 Rated Temperature | 85℃ |
| 温度范围 Operation Temperature Range: | -40℃ - +125℃ |
| 电容量范围 Capacitance Range: | 0.001μF – 4.7μF |
| 电容量偏差范围 Capacitance Tolerance Range: | J(±5%); K(±10%); M (±20%) |
| 电介质 Dielectric | 聚丙烯膜 Polypropylene Film |
| 损耗角正切：（ 25℃±5℃ ） Dissipation Factor Tanδ: | ≤0.1% (1KHZ) (25℃±5℃) |
| 绝缘电阻，在引出端之间 Insulation Resistance(Between Terminals) | 100VDC, Min C≤0.33μF ≥50000MΩ >0.33μF ≥15000 MΩ·S |
| 耐电压 Withstand Voltage: | 1.6UR(5S) |
| 寿命试验： Life. Test Conditions: | 110±2℃， 1.25UR， 1,000Hours 电容变化率： 初始值的≤±3% Capacitance Drift: ≤±3% Of the initial value 损耗角正切≤原测量值的 50% (1KHz) Dissipation Factor ≤50% (1KHz) |

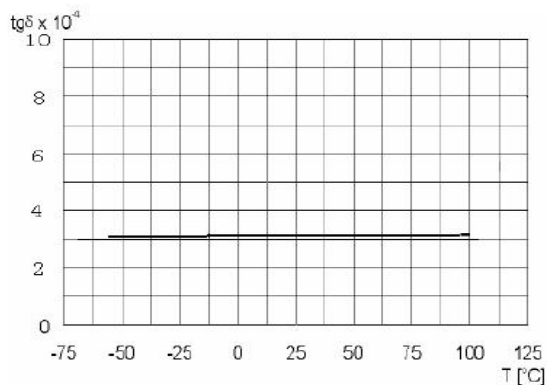


◆ 聚丙烯膜电容器特性曲线:

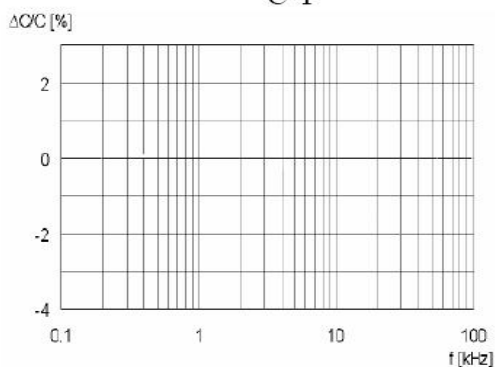
Polypropylene film capacitor characteristic curve:



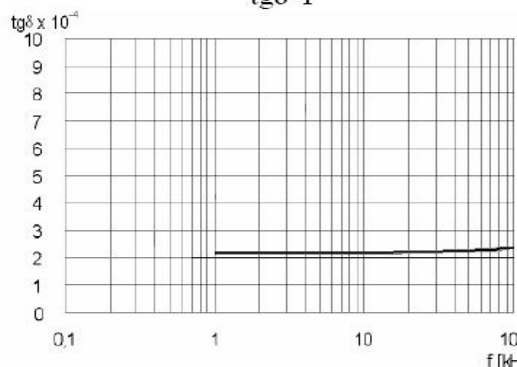
C-T



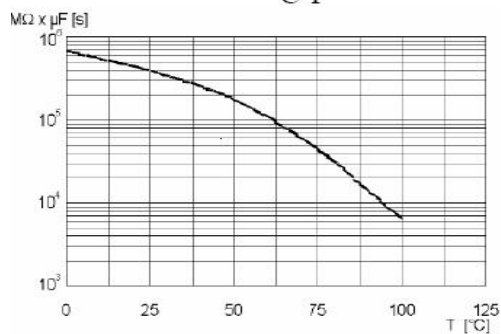
tgδ-T



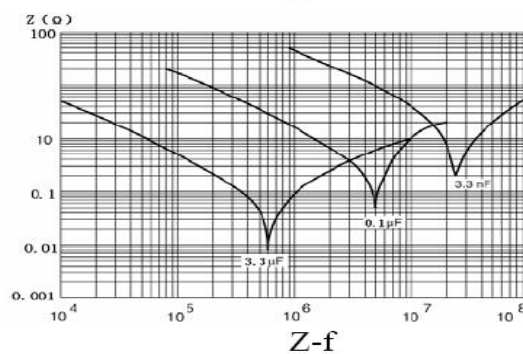
C-f



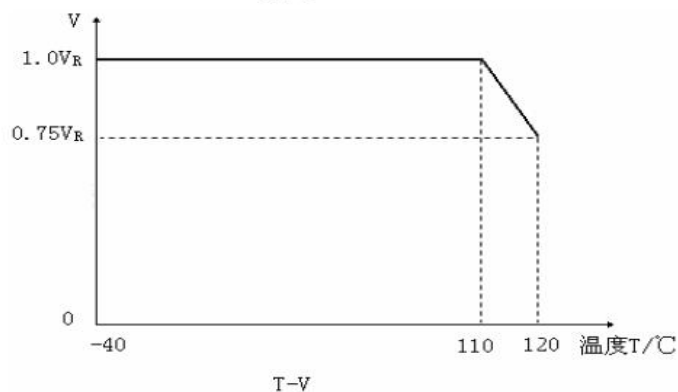
tgδ-f



R-T



Z-f



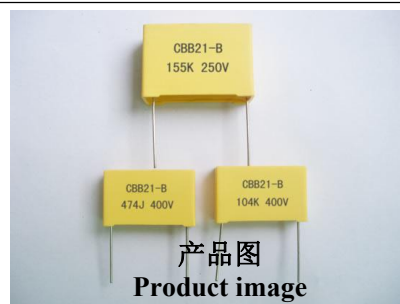
T-V



◆ 外形尺寸（mm）表

Dimension Lists (mm) Diagram

金属化聚丙烯膜塑壳电容器 CBB21-B
Metallized Polypropylene Film Capacitor –Box
Type: CBB21-B/ MKP



| Cap Code | Cap Value uF | Part No | Dimensions (mm) | | | | |
|-------------------------------|--------------|----------------|-----------------|-------|-------|-------|---------|
| | | | W max | T max | H max | P max | d ±0.05 |
| 100VDC(63VAC)/250VDC (160VAC) | | | | | | | |
| 223 | 0.022 | MPB223K(J)250V | 10.0 | 4.0 | 9.0 | 7.5 | 0.6 |
| 333 | 0.033 | MPB333K(J)250V | 13.0 | 5.0 | 11.0 | 10 | 0.6 |
| 333 | 0.033 | MPB333K(J)250V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 473 | 0.047 | MPB473K(J)250V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 473 | 0.047 | MPB473K(J)250V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 563 | 0.056 | MPB563K(J)250V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 563 | 0.056 | MPB563K(J)250V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 683 | 0.068 | MPB683K(J)250V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 683 | 0.068 | MPB683K(J)250V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 823 | 0.082 | MPB823K(J)250V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 823 | 0.082 | MPB823K(J)250V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 104 | 0.1 | MPB104K(J)250V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 104 | 0.1 | MPB104K(J)250V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 124 | 0.12 | MPB124K(J)250V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 154 | 0.15 | MPB154K(J)250V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 184 | 0.18 | MPB184K(J)250V | 18.0 | 6.0 | 12.0 | 15 | 0.8 |
| 224 | 0.22 | MPB224K(J)250V | 18.0 | 6.0 | 12.0 | 15 | 0.8 |
| 274 | 0.27 | MPB274K(J)250V | 18.0 | 7.5 | 13.5 | 15 | 0.8 |
| 334 | 0.33 | MPB334K(J)250V | 18.0 | 7.5 | 13.5 | 15 | 0.8 |
| 394 | 0.39 | MPB394K(J)250V | 18.0 | 8.4 | 14.5 | 15 | 0.8 |
| 474 | 0.47 | MPB474K(J)250V | 18.0 | 8.4 | 14.5 | 15 | 0.8 |
| 564 | 0.56 | MPB564K(J)250V | 18.0 | 10 | 15.8 | 15 | 0.8 |
| 684 | 0.68 | MPB684K(J)250V | 18.0 | 10.8 | 19.0 | 15 | 0.8 |
| 824 | 0.82 | MPB824K(J)250V | 18.0 | 10.8 | 19.0 | 15 | 0.8 |
| 105 | 1.0 | MPB105K(J)250V | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |



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|----------------|-------|----------------|------|------|------|------|-----|
| 125 | 1.2 | MPB125K(J)250V | 26.5 | 10 | 19 | 22.5 | 0.8 |
| 155 | 1.5 | MPB155K(J)250V | 26.5 | 10 | 19 | 22.5 | 0.8 |
| 185 | 1.8 | MPB185K(J)250V | 26.5 | 12 | 21.5 | 22.5 | 0.8 |
| 205 | 2.0 | MPB205K(J)250V | 26.5 | 13 | 23 | 22.5 | 0.8 |
| 225 | 2.2 | MPB225K(J)250V | 26.5 | 13 | 23 | 22.5 | 0.8 |
| 275 | 2.7 | MPB275K(J)250V | 31.5 | 13 | 21.5 | 27.5 | 0.8 |
| 305 | 3.0 | MPB305K(J)250V | 31.5 | 13 | 21.5 | 27.5 | 0.8 |
| 335 | 3.3 | MPB335K(J)250V | 31.5 | 14.0 | 25.0 | 27.5 | 0.8 |
| 405 | 4.0 | MPB405K(J)250V | 38.0 | 14.0 | 23.0 | 31.5 | 1.0 |
| 475 | 4.7 | MPB475K(J)250V | 36.5 | 15.4 | 26.3 | 31.5 | 1.0 |
| 400VDC(220VAC) | | | | | | | |
| 103 | 0.01 | MPB103K(J)400V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 103 | 0.01 | MPB103K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 153 | 0.015 | MPB153K(J)400V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 153 | 0.015 | MPB153K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 183 | 0.018 | MPB183K(J)400V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 183 | 0.018 | MPB183K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 223 | 0.022 | MPB223K(J)400V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 223 | 0.022 | MPB223K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 333 | 0.033 | MPB333K(J)400V | 13.0 | 5.0 | 11.0 | 10 | 0.6 |
| 333 | 0.033 | MPB333K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 473 | 0.047 | MPB473K(J)400V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 473 | 0.047 | MPB473K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 563 | 0.056 | MPB563K(J)400V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 563 | 0.056 | MPB563K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 683 | 0.068 | MPB683K(J)400V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 683 | 0.068 | MPB683K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 823 | 0.082 | MPB823K(J)400V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 823 | 0.082 | MPB823K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 104 | 0.1 | MPB104K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 124 | 0.12 | MPB124K(J)400V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 154 | 0.15 | MPB154K(J)400V | 18.0 | 6.0 | 12.0 | 15 | 0.8 |
| 184 | 0.18 | MPB184K(J)400V | 18.0 | 6.0 | 12.0 | 15 | 0.8 |
| 184 | 0.18 | MPB184K(J)400V | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| 224 | 0.22 | MPB224K(J)400V | 18.0 | 7.5 | 13.5 | 15 | 0.8 |
| 224 | 0.22 | MPB224K(J)400V | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| 274 | 0.27 | MPB274K(J)400V | 18.0 | 7.5 | 13.5 | 15 | 0.8 |
| 274 | 0.27 | MPB274K(J)400V | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| 334 | 0.33 | MPB334K(J)400V | 18.0 | 8.4 | 14.5 | 15 | 0.8 |
| 334 | 0.33 | MPB334K(J)400V | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| 394 | 0.39 | MPB394K(J)400V | 18.0 | 9.5 | 15.5 | 15 | 0.8 |



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|----------------|--------|----------------|------|------|------|------|-----|
| 394 | 0.39 | MPB394K(J)400V | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 474 | 0.47 | MPB474K(J)400V | 18.0 | 10 | 15.8 | 15 | 0.8 |
| 474 | 0.47 | MPB474K(J)400V | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 564 | 0.56 | MPB564K(J)400V | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| 684 | 0.68 | MPB684K(J)400V | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 824 | 0.82 | MPB824K(J)400V | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 105 | 1.0 | MPB105K(J)400V | 26.5 | 11.0 | 20.0 | 22.5 | 0.8 |
| 105 | 1.0 | MPB105K(J)400V | 31.0 | 10.8 | 19.5 | 27.5 | 0.8 |
| 125 | 1.2 | MPB125K(J)400V | 26.5 | 11.0 | 20.0 | 22.5 | 0.8 |
| 125 | 1.2 | MPB125K(J)400V | 31.0 | 13.0 | 21.5 | 27.5 | 0.8 |
| 155 | 1.5 | MPB155K(J)400V | 26.5 | 11.0 | 20.0 | 22.5 | 0.8 |
| 155 | 1.5 | MPB125K(J)400V | 31.0 | 13.0 | 21.5 | 27.5 | 0.8 |
| 205 | 2.0 | MPB205K(J)400V | 31.0 | 13.0 | 21.5 | 27.5 | 0.8 |
| 225 | 2.2 | MPB205K(J)400V | 31.0 | 14.0 | 25.0 | 27.5 | 0.8 |
| 275 | 2.7 | MPB275K(J)400V | 38.0 | 14.0 | 23.0 | 31.5 | 0.8 |
| 335 | 3.3 | MPB335K(J)400V | 38.0 | 18.0 | 28.0 | 31.5 | 0.8 |
| 405 | 4.0 | MPB405K(J)400V | 38.0 | 20.0 | 30.0 | 31.5 | 0.8 |
| 475 | 4.7 | MPB475K(J)400V | 38.0 | 20.0 | 30.0 | 31.5 | 0.8 |
| 630VDC(250VAC) | | | | | | | |
| 682 | 0.0068 | MPB682K(J)630V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 822 | 0.0082 | MPB822K(J)630V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 103 | 0.01 | MPB103K(J)630V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 103 | 0.01 | MPB103K(J)630V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 153 | 0.015 | MPB153K(J)630V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 153 | 0.015 | MPB153K(J)630V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 183 | 0.018 | MPB183K(J)630V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 183 | 0.018 | MPB183K(J)630V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 223 | 0.022 | MPB223K(J)630V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 223 | 0.022 | MPB223K(J)630V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 333 | 0.033 | MPB333K(J)630V | 13.0 | 5.0 | 11.0 | 10 | 0.6 |
| 333 | 0.033 | MPB333K(J)630V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 473 | 0.047 | MPB473K(J)630V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 473 | 0.047 | MPB473K(J)630V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 563 | 0.056 | MPB563K(J)630V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 563 | 0.056 | MPB563K(J)630V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 683 | 0.068 | MPB683K(J)630V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 683 | 0.068 | MPB683K(J)630V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 823 | 0.082 | MPB823K(J)630V | 13.0 | 6.0 | 12.0 | 10 | 0.6 |
| 823 | 0.082 | MPB823K(J)630V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 104 | 0.1 | MPB104K(J)630V | 18.0 | 6.0 | 12.0 | 15 | 0.8 |



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|-----------------|--------|-----------------|------|------|------|------|-----|
| 124 | 0.12 | MPB124K(J)630V | 18.0 | 6.0 | 12.0 | 15 | 0.8 |
| 154 | 0.15 | MPB154K(J)630V | 18.0 | 7.5 | 13.5 | 15 | 0.8 |
| 184 | 0.18 | MPB184K(J)630V | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| 224 | 0.22 | MPB224K(J)630V | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| 274 | 0.27 | MPB274K(J)630V | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| 334 | 0.33 | MPB334K(J)630V | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| 394 | 0.39 | MPB394K(J)630V | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 474 | 0.47 | MPB474K(J)630V | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 564 | 0.56 | MPB564K(J)630V | 26.5 | 11.0 | 20.0 | 22.5 | 0.8 |
| 684 | 0.68 | MPB684K(J)630V | 26.5 | 12.0 | 21.5 | 22.5 | 0.8 |
| 684 | 0.68 | MPB684K(J)630V | 31.5 | 10.8 | 19.5 | 27.5 | 0.8 |
| 824 | 0.82 | MPB824K(J)630V | 26.5 | 12.0 | 21.5 | 22.5 | 0.8 |
| 824 | 0.82 | MPB824K(J)630V | 31.5 | 10.8 | 19.5 | 27.5 | 0.8 |
| 105 | 1.0 | MPB105K(J)630V | 31.5 | 13.0 | 21.5 | 27.5 | 0.8 |
| 125 | 1.2 | MPB125K(J)630V | 31.5 | 13.0 | 21.5 | 27.5 | 0.8 |
| 155 | 1.5 | MPB155K(J)630V | 32.0 | 16.0 | 25.5 | 27.5 | 0.8 |
| 205 | 2.0 | MPB205K(J)630V | 32.0 | 18.0 | 28.0 | 27.5 | 0.8 |
| 225 | 2.2 | MPB225K(J)630V | 32.0 | 18.0 | 28.0 | 27.5 | 0.8 |
| 275 | 2.7 | MPB275K(J)630V | 32.0 | 22.0 | 31.0 | 27.5 | 0.8 |
| 305 | 3.0 | MPB305K(J)630V | 38.8 | 21.7 | 31.3 | 31.5 | 0.8 |
| 335 | 3.3 | MPB335K(J)630V | 38.8 | 21.7 | 31.3 | 31.5 | 0.8 |
| 405 | 4.0 | MPB405K(J)630V | 50.0 | 22.2 | 32.0 | 41.5 | 1.0 |
| 475 | 4.7 | MPB475K(J)630V | 50.0 | 22.2 | 32.0 | 41.5 | 1.0 |
| 1000VDC(400VAC) | | | | | | | |
| 222 | 0.0022 | MPB222K(J)1000V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 272 | 0.0027 | MPB272K(J)1000V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 332 | 0.0033 | MPB332K(J)1000V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 392 | 0.0039 | MPB392K(J)1000V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 472 | 0.0047 | MPB472K(J)1000V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 562 | 0.0056 | MPB562K(J)1000V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 682 | 0.0068 | MPB682K(J)1000V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 822 | 0.0082 | MPB822K(J)1000V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 103 | 0.01 | MPB103K(J)1000V | 12.0 | 4.0 | 9.0 | 10 | 0.6 |
| 103 | 0.01 | MPB103K(J)1000V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 153 | 0.015 | MPB153K(J)1000V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 183 | 0.018 | MPB183K(J)1000V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 223 | 0.022 | MPB223K(J)1000V | 18.0 | 5.0 | 11.0 | 15 | 0.6 |
| 473 | 0.047 | MPB473K(J)1000V | 18.0 | 6.0 | 12.0 | 15 | 0.8 |
| 563 | 0.056 | MPB563K(J)1000V | 18.0 | 7.5 | 13.5 | 15 | 0.8 |
| 683 | 0.068 | MPB683K(J)1000V | 18.0 | 7.5 | 13.5 | 15 | 0.8 |



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|-----|-------|-----------------|------|------|------|----|-----|
| 823 | 0.082 | MPB823K(J)1000V | 18.0 | 8.4 | 14.5 | 15 | 0.8 |
| 104 | 0.1 | MPB104K(J)1000V | 18.0 | 10.0 | 15.8 | 15 | 0.8 |