

# 盒式高压金属化聚丙烯膜电容器

## (PPSB/CBB81B) 规格书

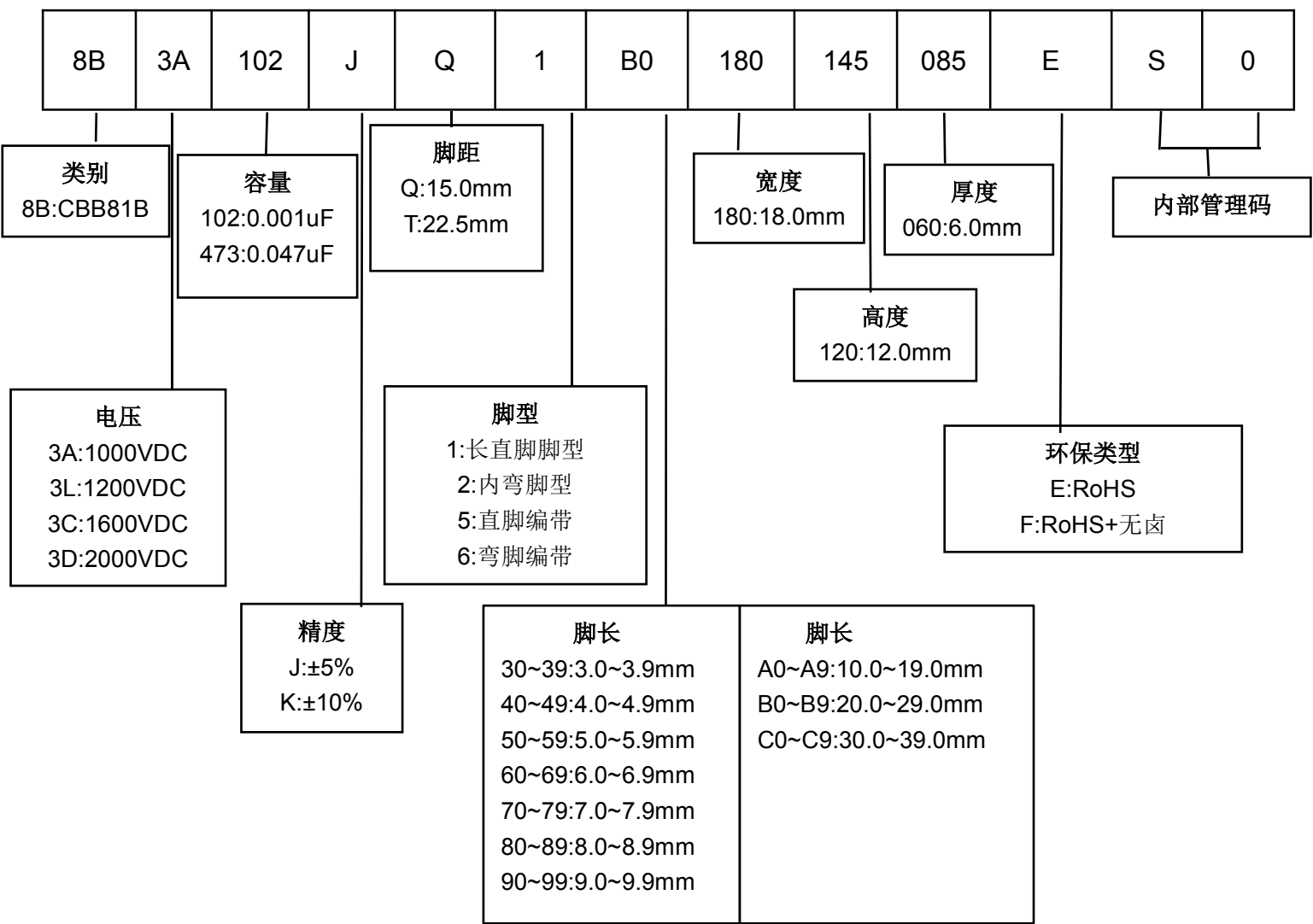
### 特点

- 电容器容量范围从 0.001uF 到 0.047uF。
- 工作温度：-40℃~105℃。
- 储存温度：15℃~35℃。
- 金属化聚丙烯膜箔式，卷绕结构。
- 损耗小，内部温升小。
- 负电容量温度系数。
- 阻燃性强(UL94 V-0)。

### 用途

- 适用于高脉冲、大电流电路。
- 大屏幕显示器及彩电行逆程电路。
- 适用于电子镇流器。

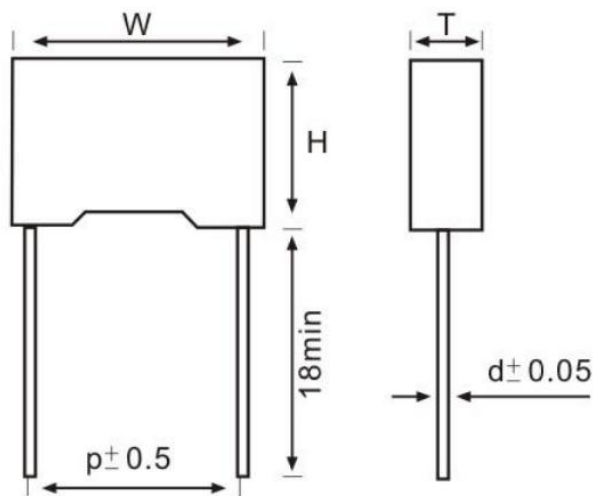
料号编码原则



技术要求

|       |                                      |
|-------|--------------------------------------|
| 气候类别  | 40/100/21                            |
| 额定电压  | 1000VDC、1200VDC、<br>1600VDC、2000VDC、 |
| 损耗角正切 | ≤0.1%(1KHz、1.0Vrms、20℃)              |
| 耐电压   | 1.75UR (5s)                          |
| 绝缘电阻  | IR≥50000MΩ (AT 100VDC、60SEC、20℃)     |

外形尺寸 (mm)

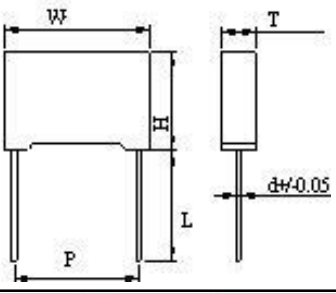
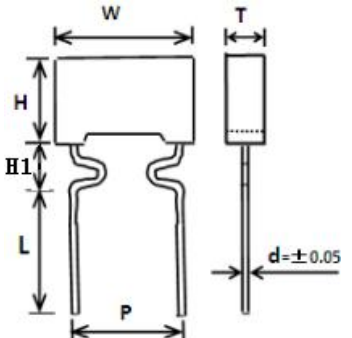


| 容量(uF) | 电压      | 尺寸 (mm) |       |       |         |        |
|--------|---------|---------|-------|-------|---------|--------|
|        |         | W±0.5   | H±0.5 | T±0.5 | P ± 1.0 | d±0.05 |
| 0.001  | 1000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1200VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1600VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 2000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
| 0.0012 | 1000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1200VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1600VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 2000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
| 0.0015 | 1000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1200VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1600VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 2000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
| 0.0018 | 1000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1200VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1600VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 2000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
| 0.0022 | 1000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1200VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 1600VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |
|        | 2000VDC | 18.0    | 12.0  | 6.0   | 15.0    | 0.8    |

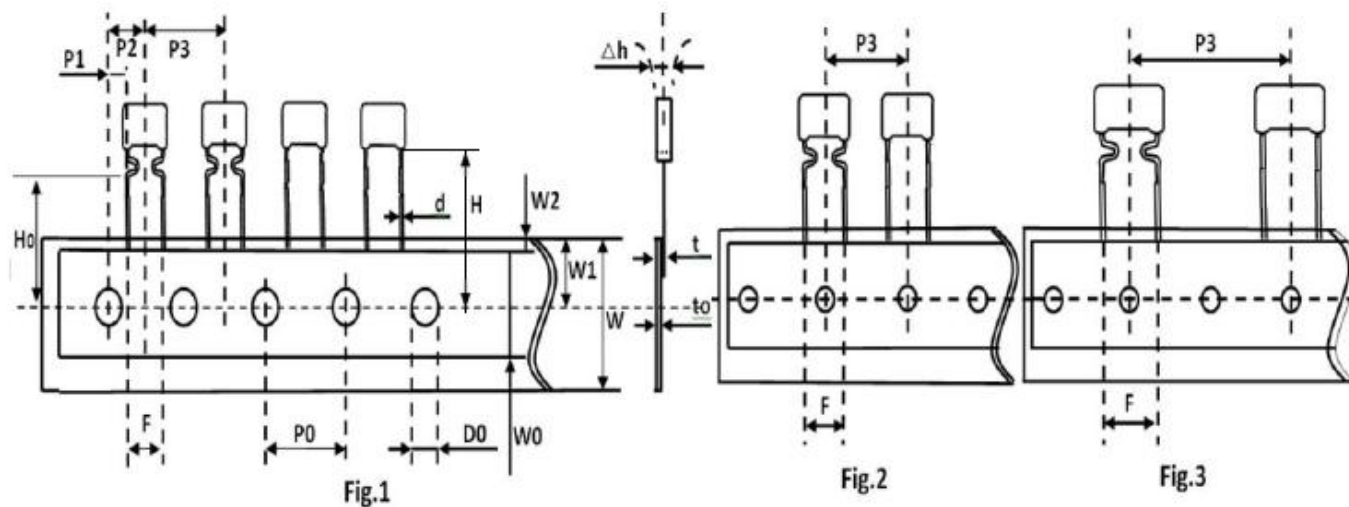
| 容量(uF) | 电压      | 尺寸 (mm) |       |       |       |        |
|--------|---------|---------|-------|-------|-------|--------|
|        |         | W±0.5   | H±0.5 | T±0.5 | P±1.0 | d±0.05 |
| 0.0033 | 1000VDC | 18.0    | 12.0  | 6.0   | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 12.0  | 6.0   | 15.0  | 0.8    |
|        | 1600VDC | 18.0    | 13.5  | 7.5   | 15.0  | 0.8    |
|        | 2000VDC | 18.0    | 13.5  | 7.5   | 15.0  | 0.8    |
| 0.0047 | 1000VDC | 18.0    | 12.0  | 6.0   | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 12.0  | 6.0   | 15.0  | 0.8    |
|        | 1600VDC | 18.0    | 13.5  | 7.5   | 15.0  | 0.8    |
|        | 2000VDC | 18.0    | 13.5  | 7.5   | 15.0  | 0.8    |
| 0.0068 | 1000VDC | 18.0    | 12.0  | 6.0   | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 12.0  | 6.0   | 15.0  | 0.8    |
|        | 1600VDC | 18.0    | 13.5  | 7.5   | 15.0  | 0.8    |
|        | 2000VDC | 18.0    | 13.5  | 7.5   | 15.0  | 0.8    |
| 0.0082 | 1000VDC | 18.0    | 12.0  | 6.0   | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 12.0  | 6.0   | 15.0  | 0.8    |
|        | 1600VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
|        | 2000VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
| 0.01   | 1000VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
|        | 1600VDC | 26.5    | 16.5  | 7.0   | 22.5  | 0.8    |
|        | 2000VDC | 26.5    | 17.5  | 8.5   | 22.5  | 0.8    |
| 0.012  | 1000VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
|        | 1600VDC | 26.5    | 16.5  | 7.0   | 22.5  | 0.8    |
|        | 2000VDC | 26.5    | 17.5  | 8.5   | 22.5  | 0.8    |
| 0.015  | 1000VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
|        | 1600VDC | 26.5    | 17.5  | 8.5   | 22.5  | 0.8    |
|        | 2000VDC | 26.5    | 17.5  | 8.5   | 22.5  | 0.8    |
| 0.018  | 1000VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 14.5  | 8.5   | 15.0  | 0.8    |
|        | 1600VDC | 26.5    | 16.5  | 7.0   | 22.5  | 0.8    |
|        | 2000VDC | 26.5    | 17.5  | 8.5   | 22.5  | 0.8    |

| 容量(uF) | 电压      | 尺寸 (mm) |       |       |       |        |
|--------|---------|---------|-------|-------|-------|--------|
|        |         | W±0.5   | H±0.5 | T±0.5 | P±1.0 | d±0.05 |
| 0.022  | 1000VDC | 18.0    | 16.0  | 10.0  | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 16.0  | 10.0  | 15.0  | 0.8    |
|        | 1600VDC | 26.5    | 16.5  | 7.0   | 22.5  | 0.8    |
|        | 2000VDC | 26.5    | 19.0  | 10.0  | 22.5  | 0.8    |
| 0.033  | 1000VDC | 18.0    | 19.0  | 11.0  | 15.0  | 0.8    |
|        | 1200VDC | 18.0    | 19.0  | 11.0  | 15.0  | 0.8    |
|        | 1600VDC | 26.5    | 19.0  | 10.0  | 22.5  | 0.8    |
| 0.047  | 1000VDC | 26.5    | 19.0  | 10.0  | 22.5  | 0.8    |
|        | 1200VDC | 26.5    | 19.0  | 10.0  | 22.5  | 0.8    |
|        | 1600VDC | 26.5    | 23.0  | 13.0  | 22.5  | 0.8    |

## 脚型、脚长说明

| 脚型    | 图示                                                                                 | 脚长 L (mm)                                                            | 高度 H1(mm)                                                                                   |
|-------|------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 长直脚脚型 |   | ① $[2.5 \leq L < 6.0] \pm 0.5$ ;<br>② $[6.0 \leq L \leq 10] \pm 1.0$ | /                                                                                           |
| 内弯脚型  |  | ① $[2.5 \leq L < 6.0] \pm 0.5$ ;<br>② $[6.0 \leq L \leq 10] \pm 1.0$ | 脚距 $P > 10\text{mm}$ : $H1 < 6.0\text{mm}$<br>脚距 $P \leq 10\text{mm}$ : $H1 < 5.0\text{mm}$ |

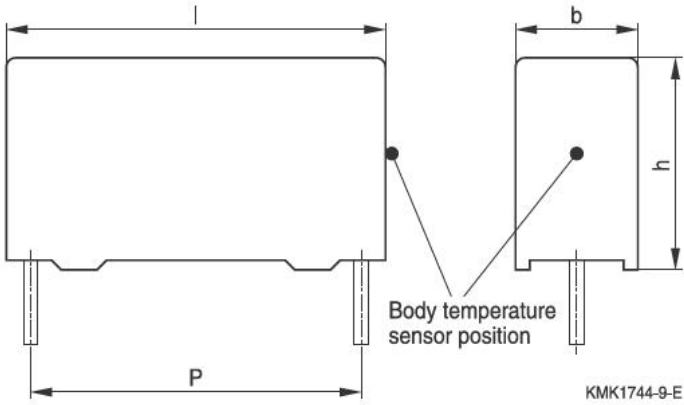
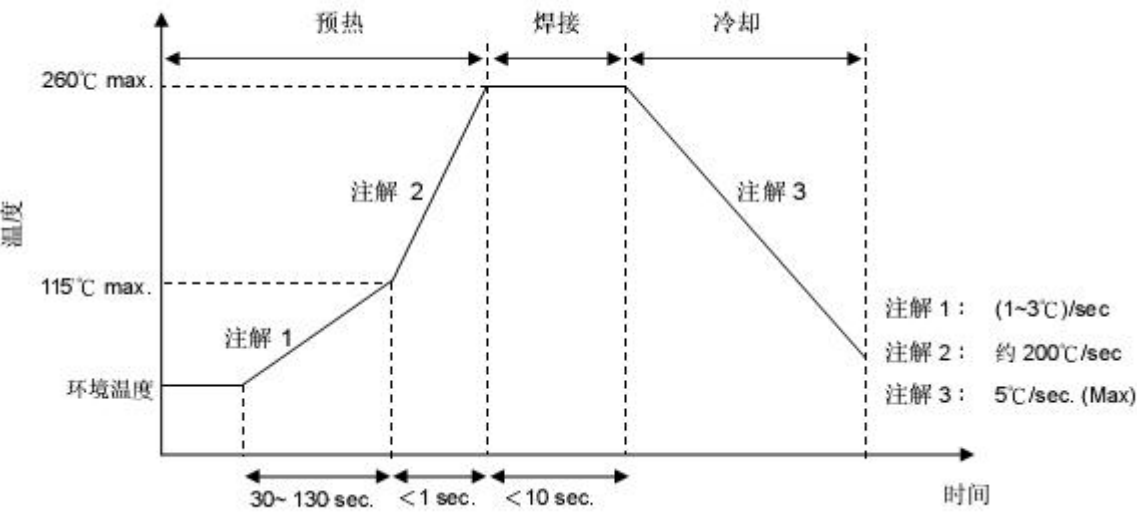
## 编带尺寸 (mm)



| 代码  | Fig.3 | Fig.3     | 误差        |
|-----|-------|-----------|-----------|
|     | P=15  | P=20/22.5 |           |
| P3  | 25.4  | 30.0      | ±1.0      |
| P2  | /     | /         | ±1.3      |
| P0  | 12.7  | 15.0      | ±0.3      |
| P1  | /     | /         | ±0.7      |
| F   | 15.0  | 20.0/22.5 | ±1.0      |
| H   | 20.0  | 20.0      | ±1.0      |
| H0  | 16.5  | 16.5      | ±0.5      |
| Δ h | 0     | 0         | ±2.0      |
| W   | 18.0  | 18.0      | +1.0/-0.5 |
| W0  | 12.0  | 12.0      | ±1.0      |
| W1  | 9.0   | 9.0       | ±0.5      |
| W2  | 3.0   | 3.0       | Max       |
| D0  | 4.0   | 4.0       | ±0.3      |
| d   | 0.8   | 0.8       | ±0.05     |
| t   | 1.4   | 1.4       | ±0.2      |
| t0  | 0.47  | 0.47      | ±0.04     |

焊接条件:

波峰焊曲线



PP:  
 During pre-heating:  $T_p \leq 110^\circ\text{C}$   
 During soldering:  $T_s \leq 120^\circ\text{C}$ ,  $t_s \leq 15\text{ s}$   
 PE:  
 During pre-heating:  $T_p \leq 125^\circ\text{C}$   
 During soldering:  $T_s \leq 160^\circ\text{C}$ ,  $t_s \leq 15\text{ s}$

烙铁重工焊接条件

| 项目         | 条件           |
|------------|--------------|
| 烙铁头部温度     | 350°C (max.) |
| 焊接时间       | 3 sec (max.) |
| 焊接位置与涂装层距离 | 2 mm (min.)  |

注：薄膜电容器不适合回流焊焊接，否则产品会因热收缩导致性能问题。