

## 盒式金属化聚丙烯膜电容器 (CBB23B) 规格书

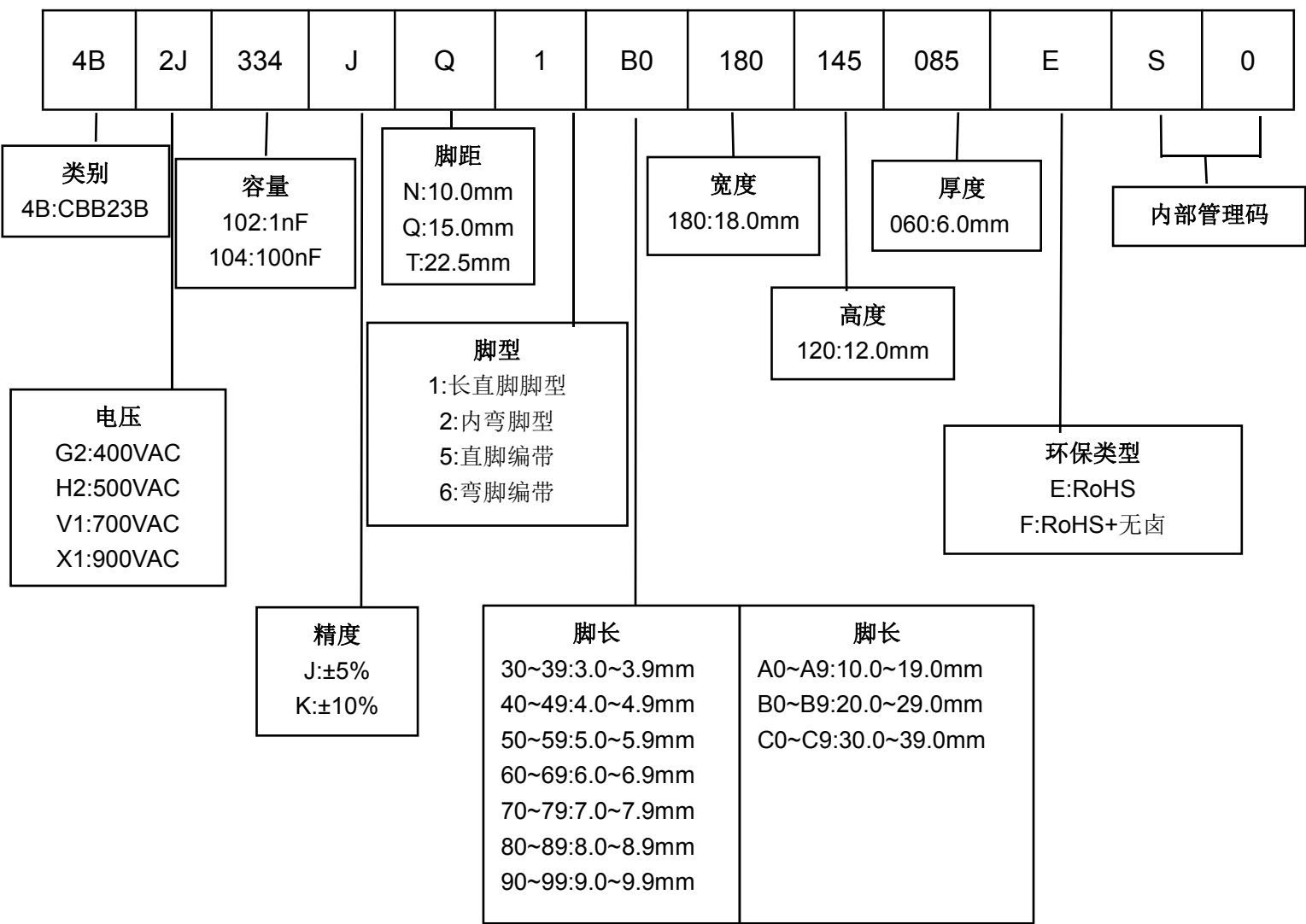
### 特点

- 电容器容量范围从 0.001uF 到 0.1uF。
- 工作温度：-40℃~105℃。
- 储存温度：15℃~35℃。
- 损耗小，内部温升小。
- 金属化聚丙烯内串材料。
- 优异的阻燃性能。
- 负电容量温度系数。

### 用途

- 广泛应用于高压高频脉冲电路中。
- 电子照明（如电子整流器）。

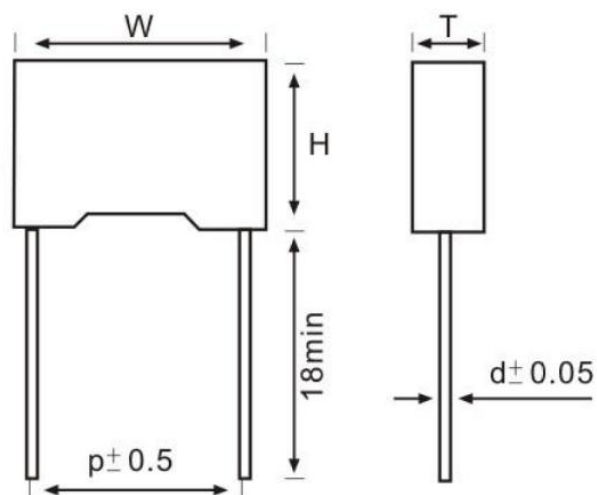
料号编码原则



技术要求

|       |                                                                                                  |
|-------|--------------------------------------------------------------------------------------------------|
| 气候类别  | 40/100/21                                                                                        |
| 额定电压  | 400VAC(1000VDC)、500VAC(1200VDC)、<br>700VAC(1600VDC)、900VAC(2000VDC)                              |
| 损耗角正切 | ≤0.1%(1KHz、1.0Vrms、20℃)                                                                          |
| 耐电压   | 1.6UR (5s)                                                                                       |
| 绝缘电阻  | C≤0.33 uF ,R≥50000MΩ<br>C>0.33 uF ,R≥15000S<br>注: T[s]=I.R.[MΩ]*CN [μF]<br>(AT 100VDC、60SEC、20℃) |

## 外形尺寸 (mm)

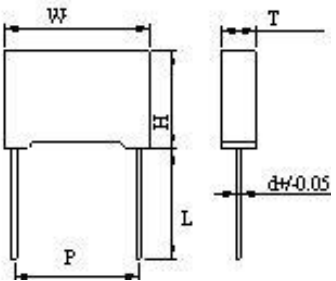
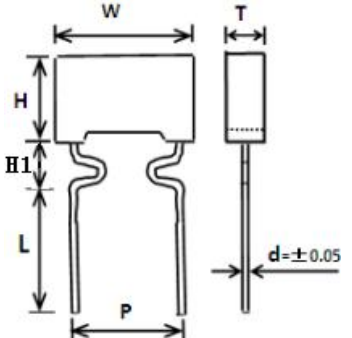


| 容量(uF) | 电压     | 尺寸(mm) |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|
|        |        | W ±0.5 | H ±0.5 | T ±0.5 | P ±1.0 | d±0.05 |
| 0.001  | 400VAC | 13.0   | 9.0    | 4.0    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
| 0.0012 | 400VAC | 13.0   | 9.0    | 4.0    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 12.0   | 6.0    | 15.0   | 0.8    |
| 0.0015 | 400VAC | 13.0   | 9.0    | 4.0    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 12.0   | 6.0    | 15.0   | 0.8    |
| 0.0018 | 400VAC | 13.0   | 9.0    | 4.0    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 13.5   | 7.5    | 15.0   | 0.8    |
| 0.0022 | 400VAC | 13.0   | 9.0    | 4.0    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 13.5   | 7.5    | 15.0   | 0.8    |

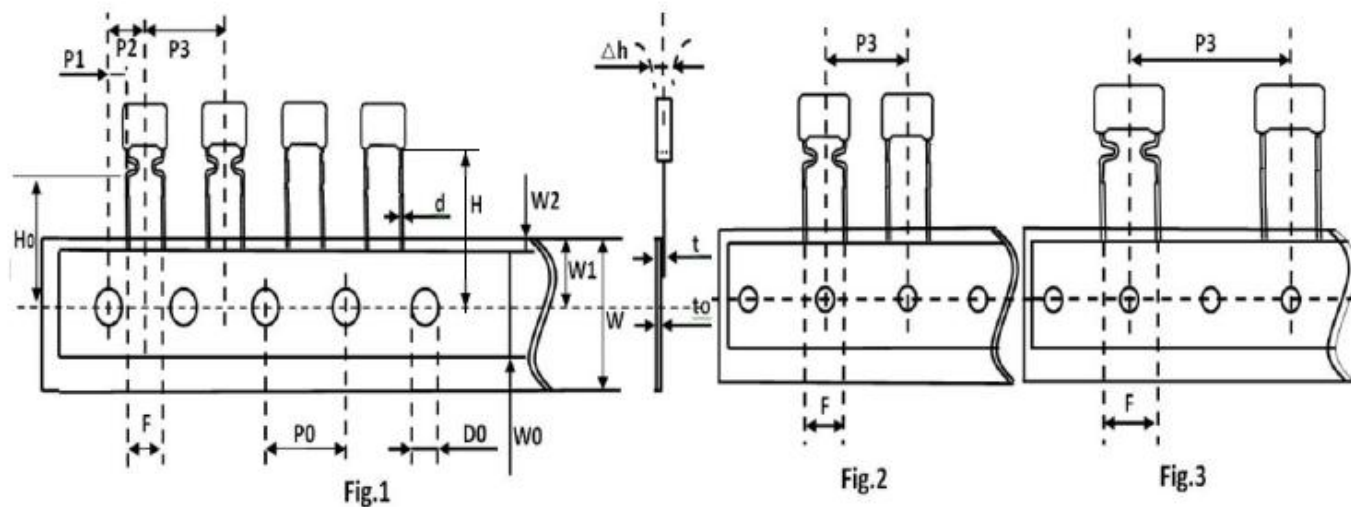
| 容量(uF) | 电压     | 尺寸(mm) |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|
|        |        | W ±0.5 | H ±0.5 | T ±0.5 | P ±1.0 | d±0.05 |
| 0.0027 | 400VAC | 13.0   | 10.0   | 5.0    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 14.5   | 8.5    | 15.0   | 0.8    |
| 0.0033 | 400VAC | 13.0   | 10.0   | 5.0    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 16.0   | 10.0   | 15.0   | 0.8    |
| 0.0039 | 400VAC | 13.0   | 11.0   | 5.0    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 12.0   | 6.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 18.0   | 10.0   | 15.0   | 0.8    |
| 0.0047 | 400VAC | 13.0   | 11.0   | 5.5    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 12.0   | 6.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 18.0   | 10.0   | 15.0   | 0.8    |
| 0.0056 | 400VAC | 13.0   | 12.0   | 6.0    | 10.0   | 0.6    |
|        | 500VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 13.0   | 7.0    | 15.0   | 0.8    |
|        | 900VAC | 18.0   | 19.0   | 12.0   | 15.0   | 0.8    |
| 0.0068 | 400VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 500VAC | 18.0   | 12.0   | 6.0    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 13.5   | 7.5    | 15.0   | 0.8    |
|        | 900VAC | 26.0   | 16.5   | 7.0    | 22.5   | 0.8    |
| 0.0082 | 400VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 500VAC | 18.0   | 13.5   | 7.5    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 14.0   | 8.0    | 15.0   | 0.8    |
|        | 900VAC | 26.0   | 16.5   | 7.0    | 22.5   | 0.8    |
| 0.01   | 400VAC | 18.0   | 11.0   | 5.0    | 15.0   | 0.8    |
|        | 500VAC | 18.0   | 13.5   | 7.5    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 14.5   | 8.5    | 15.0   | 0.8    |
|        | 900VAC | 26.0   | 16.5   | 7.0    | 22.5   | 0.8    |
| 0.012  | 400VAC | 18.0   | 12.0   | 6.0    | 15.0   | 0.8    |
|        | 500VAC | 18.0   | 13.5   | 7.5    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 16.0   | 10.0   | 15.0   | 0.8    |
|        | 900VAC | 26.0   | 17.0   | 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 |
| 0.015  | 400VAC | 18.0   | 12.0   | 6.0    | 15.0   | 0.8    |
|        | 500VAC | 18.0   | 14.5   | 8.5    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 16.0   | 10.0   | 15.0   | 0.8    |
|        | 900VAC | 26.0   | 19.0   | 10.0   | 22.5   | 0.8    |
| 0.018  | 400VAC | 18.0   | 13.0   | 7.0    | 15.0   | 0.8    |
|        | 500VAC | 18.0   | 14.5   | 8.5    | 15.0   | 0.8    |
|        | 700VAC | 18.0   | 19.0   | 11.0   | 15.0   | 0.8    |
|        | 900VAC | 26.0   | 20.0   | 11.0   | 22.5   | 0.8    |
| 0.022  | 400VAC | 18.0   | 13.5   | 7.5    | 15.0   | 0.8    |
|        | 500VAC | 18.0   | 16.0   | 10.0   | 15.0   | 0.8    |
|        | 700VAC | 26.0   | 17.0   | 8.0    | 22.5   | 0.8    |
| 0.027  | 400VAC | 18.0   | 14.5   | 8.5    | 15.0   | 0.8    |
|        | 500VAC | 18.0   | 18.0   | 10.0   | 15.0   | 0.8    |
|        | 700VAC | 26.0   | 18.0   | 9.0    | 22.5   | 0.8    |
| 0.033  | 400VAC | 18.0   | 15.0   | 9.0    | 15.0   | 0.8    |
|        | 500VAC | 26.0   | 17.0   | 8.0    | 22.5   | 0.8    |
|        | 700VAC | 26.0   | 18.5   | 10.0   | 22.5   | 0.8    |
| 0.039  | 400VAC | 18.0   | 16.0   | 10.0   | 15.0   | 0.8    |
|        | 500VAC | 26.0   | 19.0   | 10.0   | 22.5   | 0.8    |
|        | 700VAC | 26.0   | 20.0   | 11.0   | 22.5   | 0.8    |
| 0.047  | 400VAC | 18.0   | 17.5   | 11.0   | 15.0   | 0.8    |
|        | 500VAC | 26.0   | 19.0   | 10.0   | 22.5   | 0.8    |
|        | 700VAC | 26.0   | 20.0   | 11.0   | 22.5   | 0.8    |
| 0.056  | 400VAC | 26.0   | 17.0   | 8.5    | 22.5   | 0.8    |
|        | 500VAC | 26.0   | 19.0   | 10.0   | 22.5   | 0.8    |
| 0.068  | 400VAC | 26.0   | 18.0   | 9.0    | 22.5   | 0.8    |
|        | 500VAC | 26.0   | 20.0   | 11.0   | 22.5   | 0.8    |
| 0.082  | 400VAC | 26.0   | 19.0   | 10.0   | 22.5   | 0.8    |
|        | 500VAC | 26.0   | 22.0   | 12.5   | 22.5   | 0.8    |
| 0.1    | 400VAC | 26.0   | 20.0   | 11.0   | 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 $P \leq 10\text{mm}$ : $H1 < 5.0\text{mm}$ |

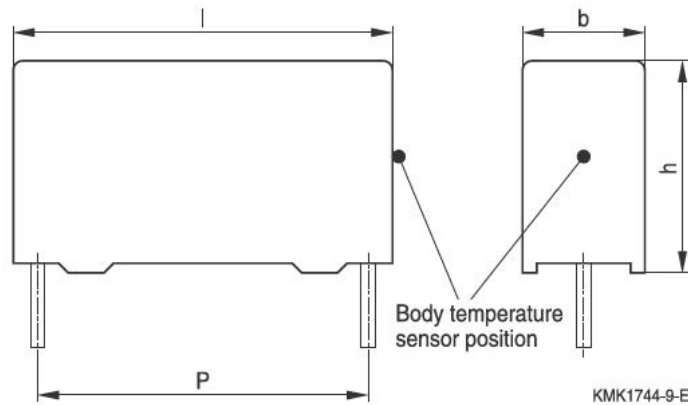
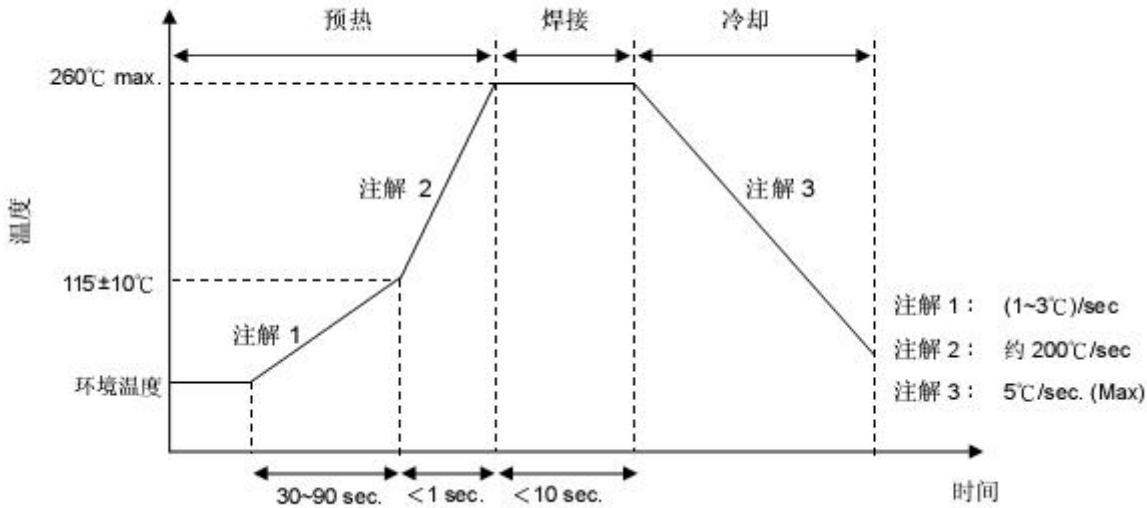
## 编带尺寸 (mm)



| 代码  | Fig.1 | Fig.2 | Fig.2 | Fig.3 | Fig.3     | 误差        |
|-----|-------|-------|-------|-------|-----------|-----------|
|     | P=5.0 | P=7.5 | P=10  | P=15  | P=20/22.5 |           |
| P3  | 12.7  | 12.7  | 12.7  | 25.4  | 30.0      | ±1.0      |
| P2  | 6.35  | /     | /     | /     | /         | ±1.3      |
| P0  | 12.7  | 12.7  | 12.7  | 12.7  | 15.0      | ±0.3      |
| P1  | 3.85  | /     | /     | /     | /         | ±0.7      |
| F   | 5.0   | 7.5   | 10.0  | 15.0  | 20.0/22.5 | ±1.0      |
| H   | 20.0  | 20.0  | 20.0  | 20.0  | 20.0      | ±1.0      |
| H0  | 16.5  | 16.5  | 16.5  | 16.5  | 16.5      | ±0.5      |
| Δ h | 0     | 0     | 0     | 0     | 0         | ±2.0      |
| W   | 18.0  | 18.0  | 18.0  | 18.0  | 18.0      | +1.0/-0.5 |
| W0  | 12.0  | 12.0  | 12.0  | 12.0  | 12.0      | ±1.0      |
| W1  | 9.0   | 9.0   | 9.0   | 9.0   | 9.0       | ±0.5      |
| W2  | 3.0   | 3.0   | 3.0   | 3.0   | 3.0       | Max       |
| D0  | 4.0   | 4.0   | 4.0   | 4.0   | 4.0       | ±0.3      |
| d   | 0.5   | 0.6   | 0.6   | 0.8   | 0.8       | ±0.05     |
| t   | 1.0   | 1.1   | 1.1   | 1.4   | 1.4       | ±0.2      |
| t0  | 0.38  | 0.38  | 0.38  | 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     | 360℃ (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。