



|                |                 |                         |                    |
|----------------|-----------------|-------------------------|--------------------|
| 產品編碼<br>P/N    | PDUUAT98-103MLY | 測試設備<br>TEST INSTRUMENT | Chroma: 3302 16502 |
| 產品系列<br>Series | UU濾波器           | 測試頻率<br>TEST FREQUENCY  | 1KHZ / 0.3V        |

客戶名稱

Customer

:

客戶編碼

Customer P/N

:

產品系列

Series

:

UU濾波器

UU Filter

產品編碼

Supply P/N

:

PDUUAT98-103MLY

發版號

Version

:

A2.0

承認日期

Endorsement Date

:

2025-4-15

備註

Note

:

|                                                                     |       |
|---------------------------------------------------------------------|-------|
| 譜羅德電子科技（深圳）有限公司<br>PuLuoDe Electronic Technology (Shenzhen) Co. LTD |       |
| 製作<br>APPROVED                                                      | Ben   |
| 審查<br>CHECKED                                                       | Yuki  |
| 确认<br>PREPARED                                                      | Peter |

\*烦请贵司在正式订单下达前确认回签本承认书，否则敝司默认贵司认可本承认书内的参数与条款，并以此参数生产交货

Please confirm and sign this acknowledgement letter before placing the formal order, otherwise PROD will acquiesce that your company recognizes the parameters and terms in this acknowledgement letter, and will produce and deliver according to these parameters.

客戶承認

Customer Approval

客戶簽章



修訂記錄  
REVISION RECORD



|                |                 |                         |                    |
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| Version | REVISION ITEM | BEFORE REVISION | AFTER REVISION | DATE      |
|---------|---------------|-----------------|----------------|-----------|
| A2.0    | First Version |                 |                | 2025-4-15 |
|         |               |                 |                |           |
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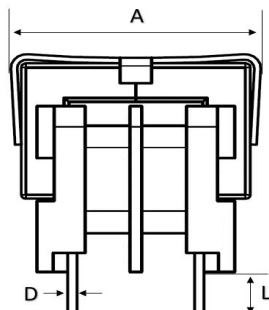
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## 封裝尺寸

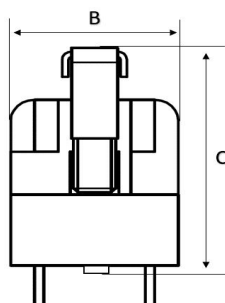
Dimension

(mm)

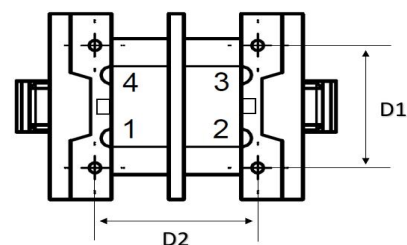
正视图  
front view



側视图  
side view



底视图  
bottom view



| 系列     | 封裝尺寸<br>Dimension |          |          |           |           |           |         | MPQ   |
|--------|-------------------|----------|----------|-----------|-----------|-----------|---------|-------|
| Series | A                 | B        | C        | D         | D1        | D2        | L       | pcs/盒 |
| UU98   | 17.0 Max          | 12.0 Max | 17.0 Max | 0.6 ± 0.1 | 7.0 ± 0.5 | 8.0 ± 0.5 | 4.0 Min | 450   |

## 編碼解釋

Code interpretation

|               |           |            |           |               |             |
|---------------|-----------|------------|-----------|---------------|-------------|
| <b>PDUUAT</b> | <b>98</b> | <b>XXX</b> | <b>M</b>  | <b>L</b>      | <b>Y</b>    |
| 類別碼           | 尺寸系列      | 感值         | 精度        | 立式            | 包黃色膠帶       |
| Category code | Dimension | Inductance | Tolerance | Vertical type | Yellow tape |

## 電氣參數

Electrical Characteristics

| 產品編碼<br>P/N     | @ 25 °C Ambient Temperture |                 |     |                       |            |                     |           |
|-----------------|----------------------------|-----------------|-----|-----------------------|------------|---------------------|-----------|
|                 | 感值<br>Inductance           | 精度<br>Tolerance | DCR | 額定電流<br>rated current | 絕緣電阻<br>IR | 耐壓<br>HI-POT        |           |
|                 | N1/N2                      | N1/N2           | Ω   |                       | MΩ         | N1/N2               | N1~C/N2~C |
|                 | mH                         | mH (Min)        | Max | mA                    | Min        | AC 1KV              | AC 1KV    |
| PDUUAT98-103MLY | 10                         | 8               | 0.7 | 1000                  | 100        | AC/60Hz<br>1mA 3Sec |           |

- ◎ 規格參數基於環境溫度25℃取得  
All test Data is referenced to 25°C ambient
- ◎ 電感工作環境溫度：-40℃ ~ 105℃  
Operating temperature range -40 °C to +105 °C
- ◎ 加載額定電流會使電感溫度上升大約 40℃ (電感初始溫度+上升溫度=電感最終溫度)  
Typical Heat Rating DC Current would cause an approximately ΔT of 40°C
- ◎ 務必考慮最終的產品設計，元器件佈局，線路板走線，以及使用環境過程中，電感最終溫度不得超過105℃  
The operating temperature of inductance do not exceed 105°C
- ◎ 使用電感時，請查閱第6頁注意事項  
The announcements is on page 7

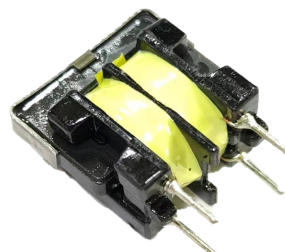
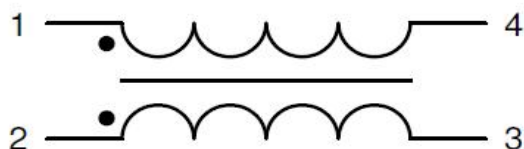
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### 電感結構

#### Inductor Structure

### 實物展示

#### picture



◎ 电感内置两组线圈

Inductor Contents Two (2) Set(s) of Coil

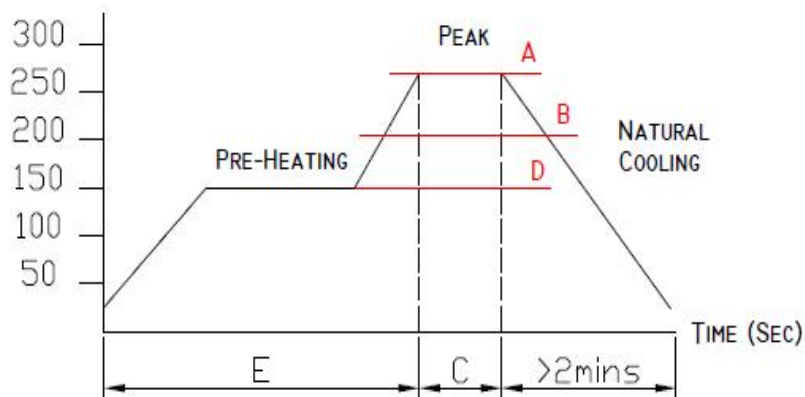
### 材料清單

#### Material List

| NO. | 材料<br>ITEM           | 材質規格<br>Material |
|-----|----------------------|------------------|
| 1   | 磁芯/Core              | 铁氧体磁芯/ Ferrite   |
| 2   | 骨架/Bobbin            | 电木骨架/ Bobbin     |
| 3   | 漆包線/Wire             | P180 2UEW+F 155℃ |
| 4   | 绝缘胶带/Insulating tape | 黄色/Yellow        |

### 焊接溫度（推荐）

#### Recommended Soldering Temperature Graph



|   |            |
|---|------------|
| A | 260℃       |
| B | 230℃       |
| C | 10 Sec     |
| D | 150℃       |
| E | 60~240 Sec |



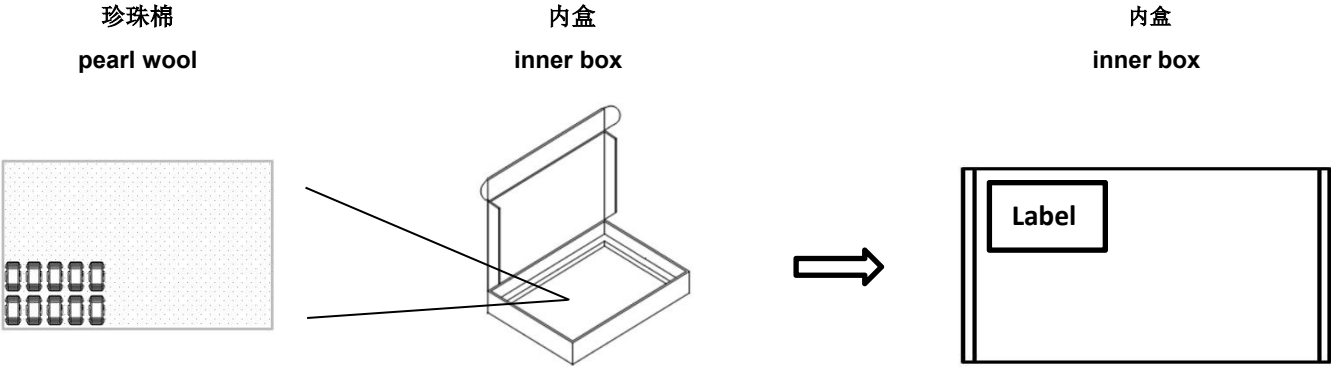
包裝  
PACKING



|                |               |                         |                                      |
|----------------|---------------|-------------------------|--------------------------------------|
| 產品編碼<br>P/N    | PDUUAT-series | 測試設備<br>TEST INSTRUMENT | Keysight:E4991B<br>Chroma:16502 3302 |
| 產品系列<br>Series | UU濾波器         | 測試頻率<br>TEST FREQUENCY  | 1KHZ / 0.3V                          |

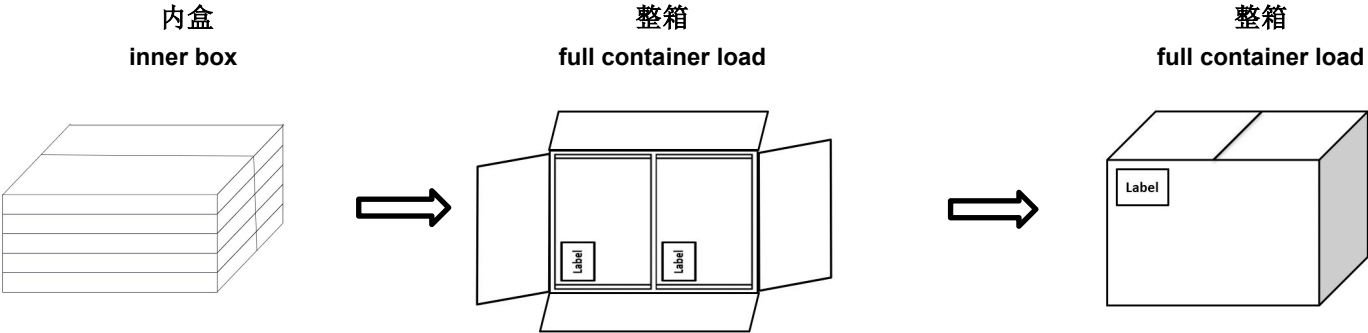
內盒包裝

MPQ packaging



外箱

full container load



尺寸与数量

Size and Quantity

|              |          |          |          |
|--------------|----------|----------|----------|
| 系列<br>Series | UU9.8    | UU10.5   | UU16     |
| 最小包裝MPQ      | 450 pcs  | 260 pcs  | 187 pcs  |
| 整箱數量FCL      | 4500 pcs | 2080 pcs | 1496 pcs |



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者掃描二維碼通過微信小程序獲取

<https://www.prodtech.cn/>





## 注意事項

使用本產品時，請注意以下事項

- ◎ 產品保存期限為12個月，保存條件：溫度5~40℃，濕度10~75%RH以內，超過保存期限可能會使產品端子電極發生氧化。
- ◎ 請勿在極端環境下使用和保存（高鹽，強酸，強鹼，強輻射等）。
- ◎ 產品焊接前，請進行預熱；預熱溫度與焊接溫度之間溫差建議控制在150℃以內。
- ◎ 產品焊接後需重新拆卸焊接修正時，請遵循規格書規定的條件範圍；過高的加熱溫度以及反復的拆卸可能會導致產品失效。
- ◎ 產品請勿接觸清洗劑，酒精等液體，這會侵蝕產品本體，從而導致產品失效。
- ◎ 產品焊接到線路板後，請注意不可因線路板整體變形或局部變形而施加給電感剩餘應力，這可能會導致電感發生破裂，脫落，以致失效。
- ◎ 產品通電後溫度會隨電流的增大而上升，設計時請務必考慮留有餘量。
- ◎ 過高的靜電會對產品產生永久性損害，請注意靜電防護。
- ◎ 產品通電過程請勿觸摸產品任何部位，防止觸電。
- ◎ 本產品作為磁性產品，設計時請務必考慮周邊元器件與本產品可能產生的相互影響。
- ◎ 本產品適用於一般電子設備，如：AV設備，通信設備，家電產品，娛樂設備，電腦設備，個人設備，辦公設備，計測設備，工業機器人等。且該一般電子設備需在常規的操作和使用方法環境下使用。  
對於需要高度安全性和可靠性的，或者因本產品失效造成設備故障，誤操作，運轉不良等危及到人的生命身體及財產安全，以及對社會產生較大不良影響的特殊用途，設計使用前務必同本公司溝通，設計使用者如未在未取得我司書面同意狀況下使用造成任何後果，我司不予承擔。特殊用途包含但不限定如下清單：
  - 1 軍用設備
  - 2 運輸設備（汽車，軌道交通產品，船舶等）
  - 3 航空，航太設備
  - 4 發電控制設備
  - 5 核動力相關設備
  - 6 爆炸引燃控制設備
  - 7 交通控制設備
  - 8 關係到國防安全的設備
  - 9 其他被認定為特殊用途的設備

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## ANNOUNCEMENTS

Please read this before using the product.

- © The product storage life is 12 months, Storage Temperature: TEMP.5~40°C; RH10%~75%. Please use the product within the warranty period
- © Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, radiation etc.) .
- © Before soldering, be sure to preheat components:The preheating temperature should be set so that The temperature difference between the solder temperature and chip temperature does not exceed 150° C.
- © Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur. Repeated disassembly may invalidate the inductance
- © The cleaning agent can not be used for these products. This may corrode the inductor
- © When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- © Self heating (Rated Current or Irms) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- © Too high static electricity will cause permanent damage to the product, please pay attention to electrostatic protection.
- © As a magnetic product, the design must consider the possible interaction between peripheral components and the product.
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If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact PROD. Otherwise, PROD will not bear the serious consequences caused by product quality problems

- |                                                        |                                                                           |
|--------------------------------------------------------|---------------------------------------------------------------------------|
| 1 Military equipment                                   | 8 Medical equipment                                                       |
| 2 Transportation equipment (cars, trains, ships, etc.) | 9 Other applications that are not considered general-purpose applications |
| 3 Aerospace/aviation equipment                         |                                                                           |
| 4 Power-generation control equipment                   |                                                                           |
| 5 Atomic energy-related equipment                      |                                                                           |
| 6 Explosive ignition control equipment                 |                                                                           |
| 7 Transportation control equipment                     |                                                                           |

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