

產品編碼 P/N	PDUUAT98-203MLN	測試設備 TEST INSTRUMENT	Chroma: 3302 16502 19072
產品系列 Series	UU濾波器	測試頻率 TEST FREQUENCY	1KHZ / 0.3V

客戶名稱 :
 Customer :
 客戶編碼 :
 Customer P/N :
 產品系列 : UU濾波器
 Series : UU Filter
 產品編碼 : PDUUAT98-203MLN
 Supply P/N :
 發版號 : A2.0
 Version :
 承認日期 : 2021-11-17
 Endorsement Date :
 備註 :
 Note :

譜羅德電子科技（深圳）有限公司 PROD Electronic Technology (Shenzhen) Co. LTD	
製作 APPROVED	Ben
審查 CHECKED	Yuki
確認 PREPARED	Peter

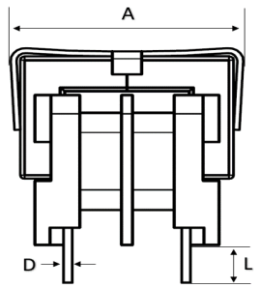
客戶承認 Customer Approval
(Blank area for signature)

客戶簽章

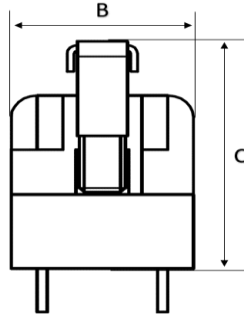


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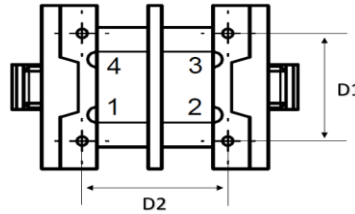
封裝尺寸 Dimension (mm)



正视图
front view



側视图
side view



底视图
bottom view

UU9.8	封裝尺寸 Dimension
A	17.0 Max
B	12.0 Max
C	17.0 Max
D	0.6 ± 0.05
D1	7.0 ± 0.5
D2	8.0 ± 0.5
L	5.0 ± 1.0
MPQ	450pcs/盒

編碼解釋

Code interpretation

PDUUAT	98	203	M	L	N
<u>類別碼</u>	<u>尺寸系列</u>	<u>感值</u>	<u>精度</u>	<u>立式</u>	<u>標準品</u>
Category code	Dimension	Inductance	Tolerance	Vertical type	Normal

電氣參數

Electrical Characteristics

產品編碼 P/N	@ 25 °C Ambient Temperature						
	感值	精度	DCR	額定電流 rated current	絕緣電阻	耐壓	
	Inductance	Tolerance			IR	HI-POT	
	N1/N2	N1/N2	Ω	mA	MΩ	N1/N2	N1~C/N2~C
mH	mH(Min)	Max	Min	Min	AC 1500V	AC 600V	
PDUUAT98-203MLN	20	16	1.2	600	100	AC/60Hz 1mA 3Sec	AC/60Hz 1mA 3Sec

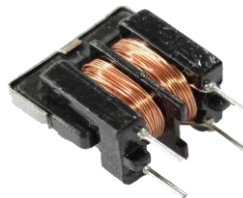
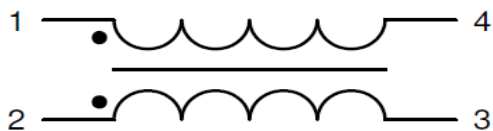
- ◎ 規格參數基於環境溫度25°C取得
All test Data is referenced to 25°C ambient
- ◎ 電感工作環境溫度：-25°C ~ 105°C
Operating temperature range -25 °C to +105 °C
- ◎ 加載額定電流會使電感溫度上升大約 40°C (電感初始溫度+上升溫度=電感最終溫度)
Typical Heat Rating DC Current would cause an approximately ΔT of 40°C
- ◎ 設計時，請遵循規格書所示參數，並適當留有餘量
The design should follow the parameters shown in the specification and leave a proper margin
- ◎ 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°C
The operating temperature of inductance do not exceed 105°C
- ◎ 參考產品開發設計實測尺寸，感值，DCR等數據，請參考規格書第5頁
The Dimension, Inductance, DCR test data is on page 5
- ◎ 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



- ◎ 电感内置两组线圈
Inductor Contents Two (2) Set(s) of Coil
- ◎ 电感使用不需要区分正负方向
DC/AC Current Shall Be Introduced By Any One of Two Pads
- ◎ 线径0.25mm 圈数: 85T
D: 0.25mm, Turns 85T

材料清單

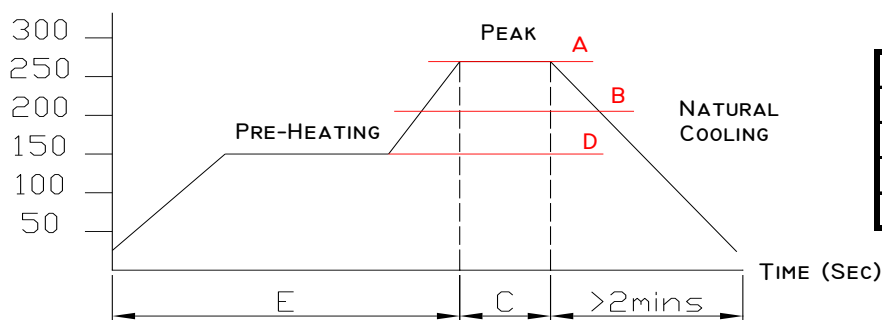
Material List

NO.	材料 ITEM	材質規格 Material	製造商 Manufacturer	UL NO.
1	磁芯/Core	UU9.8铁氧体磁芯	HENGRUI MAGNETIC EL.(或等同廠商規格)	N.A
2	骨架/Bobbin	UU9.8电木骨架	HENGXING(或等同廠商規格)	N.A
3	漆包線/Wire	2UEW+F 155°C	PACIFIC(或等同廠商規格)	N.A
4	钢架/Clip	UU9.8钢架	CHUANGFU(或等同廠商規格)	N.A
5	凡立水/Varnish	C-2020 T-30	TAL CHEMICAL(或等同廠商規格)	N.A

焊接溫度 (推荐)

Recommended Soldering Temperature Graph

TEMPERATURE (°C)



測試數據

TEST REPORT



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測試數據

Test Date

序号	尺寸測試數據 Dimension Test Date							特性測試數據 Characteristics Test Date		
	A	B	C	D	D1	D2	L	DCR	Lo	Judge
	mm	mm	mm	mm	mm	mm	mm	Ω	Min	
	17.0 Max	12.0 Max	17.0 Max	0.6 ± 0.05	7.0 ± 0.5	8.0 ± 0.5	5.0 ± 1.0	1.2	16	
1	15.44	10.86	16.11	0.59	6.96	7.99	5.18	0.904	25.42	PASS
2	15.32	10.79	15.98	0.60	7.02	7.98	5.15	0.915	25.89	PASS
3	15.39	10.75	15.92	0.60	6.98	7.97	5.26	0.917	21.49	PASS
4	15.37	10.80	16.21	0.60	6.96	7.97	5.07	0.927	31.29	PASS
5	15.49	10.87	16.22	0.60	6.97	8.07	5.08	0.925	24.61	PASS
6										PASS
7										PASS
8										PASS
9										PASS
10										PASS
平均值	15.40	10.81	16.09	0.60	6.98	8.00	5.15	0.9176	25.74	

◎ 所有测试数据基于环境温度25℃取得
All test Data is referenced to 25℃ ambient





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：
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 - 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





ANNOUNCEMENTS

Please read this before using the product.

- © The product storage life is 12 months, Storage Temperature: TEMP.5~40℃; 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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