



產品編碼 P/N	PSPHAQ74-221M	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	SMD CDH Power Inductor	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

客戶名稱

Customer

客戶編碼

Customer P/N

產品系列

Series

貼片組裝電感

SMD CDH Power Inductor

產品編碼

Supply P/N

PSPHAQ74-221M

發版號

Version

A2.0

承認日期

Endorsement Date

2025-6-10

備註

Note

譜羅德電子科技（深圳）有限公司

Puluode Electronic Technology (Shenzhen) Co. LTD

製作

APPROVED

Ben

審查

CHECKED

Yuki

確認

PREPARED

Peter

* 烦请贵司在正式订单下达前确认回签本承诺书，否则敝司默认贵司认可本承诺书内的参数与条款，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



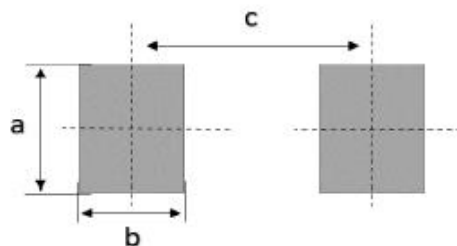
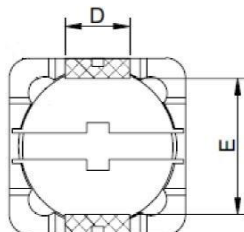
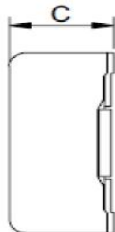
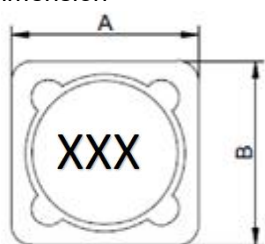
產品編碼 P/N	PSPHAQ74-221M	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	SMD CDH Power Inductor	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

Version	REVISION ITEM	BEFORE REVISION	AFTER REVISION	DATE
A2.0	First Version			2025-5-16

產品編碼 P/N	PSPHAQ74-221M	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	SMD CDH Power Inductor	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

封裝尺寸

Dimension (mm)



系列 Series	封装尺寸					焊盘尺寸			最小包装
	Dimension					Land Pattern			
	A	B	C	D	E	a	b	c	MPQ
CDH74	7.3±0.3	7.3±0.3	4.5 Max.	1.8±0.3	5.0 Ref	2.1 Typ	2.1 Typ	5.2 Typ	1000pcs/卷盘

編碼解釋

Code interpretation

P S P H A Q	74	XXX	-	M
類別碼	尺寸系列	感值		精度
Category code	Dimension	Inductance Code		Tolerance

電氣參數

Electrical Characteristics

產品編碼 P/N	@ 25 °C Ambient Temperature			
	感值 (L)	精度 (Tolerance)	DCR	額定電流 (Rated Current)
			Ω	A
			Max	Typ
PSPHAQ74-221M	220	20%	1.16	0.62

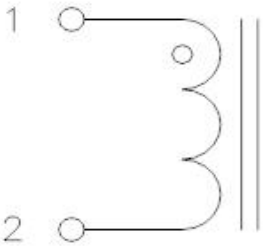
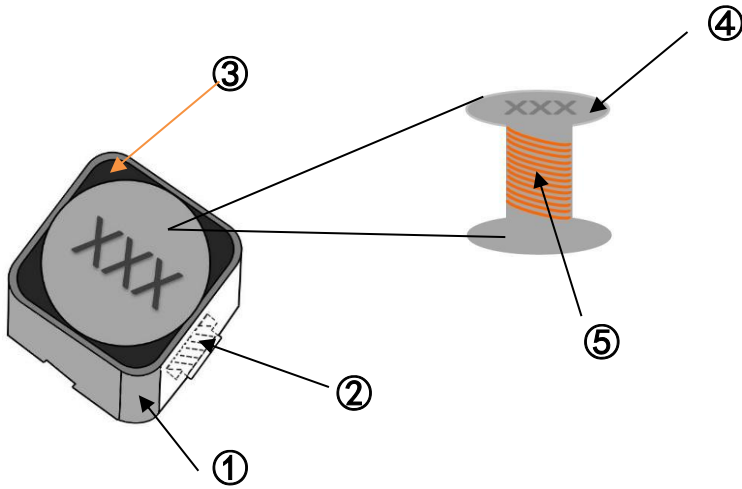
- ◎ 規格參數基於環境溫度25℃取得
All test Data is referenced to 25℃ ambient
- ◎ 電感工作環境溫度：-40℃ ~ 125℃
Operating temperature range -40 °C to +125 °C
- ◎ 加載額定電流會使電感溫度上升大約 40℃，電感量（Lo）下降大約30%
Typical Heat Rating DC Current would cause an approximately ΔT of 40℃, Lo to drop approximately 30%.
- ◎ 務必考慮最終的產品設計，元器件佈局，線路板走線，以及使用環境過程中，電感最終溫度不得超過125℃
The operating temperature of inductance do not exceed 125℃
- ◎ 使用電感時，請查閱第6頁注意事項
The announcements is on page 6

CHARACTERISTICS

產品編碼 P/N	PSPHAQ74-221M	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	SMD CDH Power Inductor	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

產品結構
Internal Structure

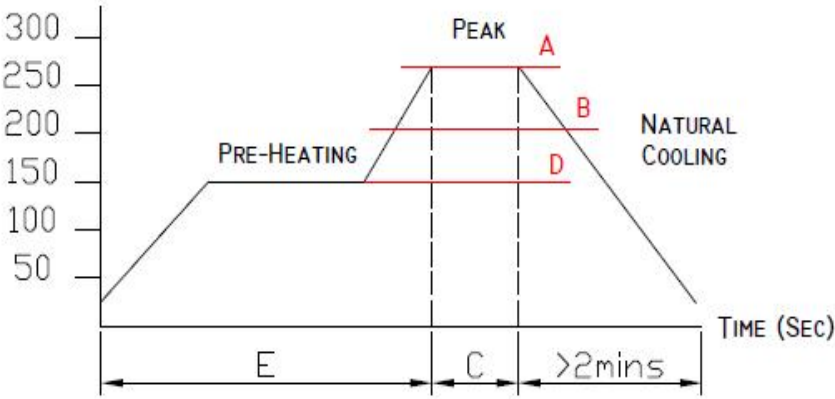
電路結構
Connections



◎ 電感內置一組線圈
Inductor Contents one (1) Set(s) of Coil

NO.	結構 Structure Name	材料規格 Material Name
①	磁罩/Magnetic cover	鎳鋅鐵氧體/Ni-Zn Ferrite Core
②	電極/Electrode	銅-鎳-錫端子/Cu-Ni-Sn plating
③	膠水/Glue	環氧樹脂/Epoxy Resin
④	磁芯/Magnetic Core	鎳鋅鐵氧體/Ni-Zn Ferrite Core
⑤	銅線/Copper Wire	聚氨酯漆包線/Polyurethane Enameled Copper Wire

焊接溫度（推荐）
Recommended Soldering Temperature Graph



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

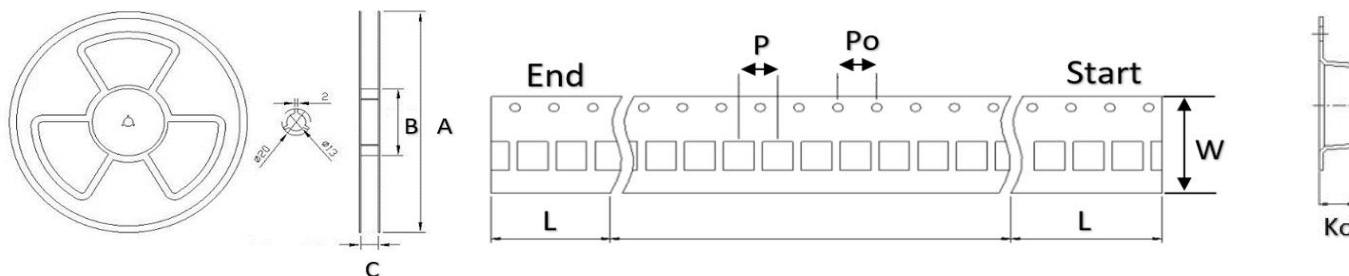


產品編碼 P/N	PSPHAQ74-221M	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	SMD CDH Power Inductor	測試頻率 TEST FREQUENCY	100KHZ / 0.25V

載帶卷盤尺寸：(mm)

Packing Dimension

系列 Series	A	B	C	W	P	Po	Ko	L
CDH74	330	100	17	16	12	4	4.7	前后预留大约30空格

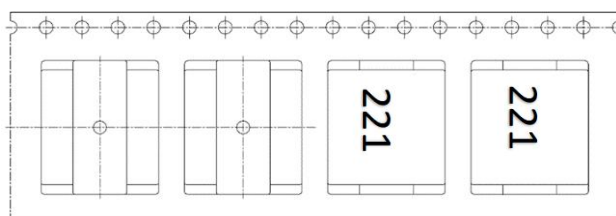


載帶內產品排列方式：

Inductance Packing Method

首字對孔

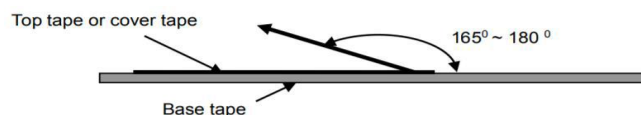
The first mark is on the side of the gear hole



載帶剝離力：

Typical Pulling Force

20~120 gf



裝箱數量：

Package Quantity

1000pcs/卷盤

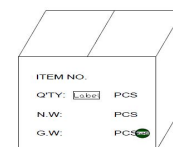
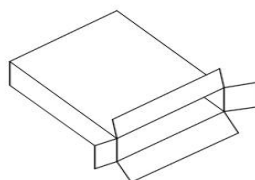
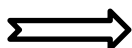
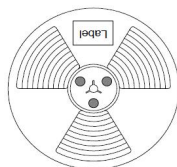
1000pcs/Reel

3000pcs/每盒

3000pcs/ Inner box

9000pcs/每箱

9000pcs/ Outer box



◎ 實際出貨過程，依據客戶需求狀況的不同，包裝數量會有變化，最終的包裝數量請參照實際出貨包裝

In the actual delivery process, the package quantity will change according to the different customer demands. Please refer to the actual shipment quantity for the final package quantity





注意事项

使用本产品时，请注意以下事项

- ◎ 产品保存期限为12个月，保存条件：温度5~40℃，湿度10~75%RH以内，超过保存期限可能会使元器件电极发生氧化，存储标准可参照：IEC_61760-2-2021
This components storage life is 12 months, Storage Temperature: TEMP.5~40℃; RH10%~75%. Please use this components within the warranty period. refer standard to: IEC_61760-2-2021
- ◎ 请勿在极端环境下使用和保存（高盐，强酸，强碱，强辐射等）。
Do not use this component in special environments, such as high salt content, strong acid, strong alkali, strong corrosion and other special environments.
- ◎ 元器件焊接前，请进行预热，预热与焊接温度之间温差建议控制在150℃以内；焊接标准参考：EN61760-1:2006
Please preheat the product before welding; it is recommended to control the preheating temperature and welding temperature within 150℃. refer standard to: EN61760-1:2006
- ◎ 元器件焊接后需重新拆卸焊接修正时，请遵循规格书规定的条件范围；过高的加热温度以及反复的拆卸可能会导致元器件失效。
When repairing this component, the temperature used for disassembly should not exceed the datasheet limit and do not disassemble it frequently to prevent damage to the component.
- ◎ 请勿用清洗剂、丙酮等腐蚀性液体接触该元器件，这可能会侵蚀元器件本体以至于失效。
Do not use acetone or other corrosive liquids to contact this component or it will cause it to fail.
- ◎ 元器件焊接到线路板后，请注意不可因线路板整体变形或局部变形而施加给电感剩余应力，这可能会导致元器件脱落、破损失效。
When this component is soldered to the circuit board, you need to pay attention to the stress applied to it by the PCB, which may cause it to fall off or damaged fail.
- ◎ 元器件通电后温度会随电流的增大而上升，设计时请务必考虑留有余量。
Self heating (Rated Current or Irms) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- ◎ 过高的静电会损坏该元器件，请注意静电防护。
Too high static electricity will cause permanent damage to the product, please pay attention to electrostatic protection.
- ◎ 本元器件作为磁性产品，设计时请务必考虑周边元器件与本产品可能产生的耦合效应影响。
This magnetic component needs to be considered for coupling effects in the application.
- ◎ 谱罗德并不能完全掌握或熟悉客户的特定应用以及要求，贵司有责任和义务验证此元器件以及元器件规格书中的描述是否满足于贵司的设计要求；需要指出是：即使按照现有的技术标准操作，该元器件依然有几率在典型寿命结束前发生故障，谱罗德强烈建议贵司对于该元器件在一些典型的严苛应用中，例如安规产品，工业产品、医疗产品、车载产品、航空/航天等产品应用，对于该元器件可能存在的失效情况做适当的冗余设计，以此避免该元器件在失效时造成严重后果；特别提醒：对于特定的应用对象谱罗德强烈要求贵司同谱罗德取得书面的许可，否则谱罗德不予承担元器件失效带来的任何责任，特定对象包括且不限于：车用，航空航天，安规产品，军用以及贵司对元器件有严苛要求的产品。

PROD cannot fully understand and be familiar with customers' specific applications and requirements. Your company has the responsibility and obligation to verify whether the components and the description in the component specification meet your design requirements. Special reminder: Even if operated in accordance with existing technical standards, this component still has a chance of failure before the end of its typical life. PROD strongly recommends that your company make appropriate redundant designs for possible failure situations of this component in some typical harsh applications, such as safety products, industrial products, medical products, automotive products, aviation/aerospace products, etc., so as to avoid serious consequences when the component fails.

PROD Requirements: For specific application item, PROD strongly requires your (or company) to obtain written permission from PROD, otherwise PROD will not bear any responsibility for component failure. Specific item list include but are not limited to: automotive, aerospace, safety products, military and products that your company has strict requirements on components.

