

產品編碼 P/N	PDPTAT0810-472K	測試設備 TEST INSTRUMENT	Chroma:3302/16502
產品系列 Series	插件工字电感	測試頻率 TEST FREQUENCY	1KHZ / 0.3V

客戶名稱 : 立创商城
Customer

客戶編碼 :
Customer P/N

產品系列 : 插件工字电感
Series : DIP Power Inductor

產品編碼 : PDPTAT0810-472K
Supply P/N

發版號 : A2.0
Version

承認日期 : 2021-11-19
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

客戶簽章



修訂記錄
REVISION RECORD



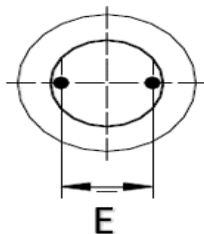
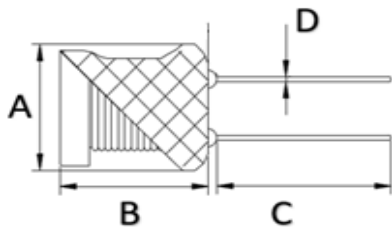
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Version	REVISION ITEM	BEFORE REVISION	AFTER REVISION	DATE
A1.0	首次發行			2021-11-19

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封裝尺寸 (mm)

Dimension



0810	封裝尺寸 Dimension
A	9.5 Max
B	12 Max
C	10 Min
D	0.6 ± 0.05
E	5.2 Ref
MPQ	250pcs/袋裝

編碼解釋

Code interpretation

PDPTAT	-	0810	-	472	-	K
類別碼		尺寸系列		感值		精度
Category code		Dimension		Inductance		tolerance

電氣參數

Electrical Characteristics

產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值	精度	溫升電流 I _{rms}	飽和電流 ISAT	DCR	
	Inductance	tolerance	mA	mA	Ω	
	mH	±	ΔT ≈ 40°C	L0 drop ≈ 30%	Typ	Max
PDPTAT0810-472K	4.7	10%	120	200	6.4	7.5

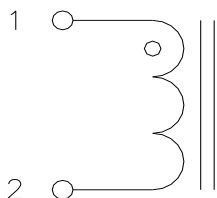
- ◎ 規格參數基於環境溫度25°C所得
All test Data is referenced to 25°C ambient
- ◎ 加載溫升電流 (I_{rms}) 會使產品本體溫度大約上升 40°C (電感初始溫度+上升溫度=電感最終承受溫度)
Typical Heat Rating DC Current would cause an approximately ΔT of 40°C
- ◎ 加載飽和電流 (ISAT) 會使感值下降大約 30%
Typical Saturation DC Current would cause Lo to drop approximately 30%
- ◎ 工作電流 (IDC) 取值於溫升電流 (I_{rms}) 與飽和電流 (ISAT) 二者最小值
IDC depends on the minimum value between I_{rms} and ISAT
- ◎ 電感工作環境溫度: -25°C ~ 105°C
Operating temperature range -25 °C to +105 °C
- ◎ 務必考慮最終產品設計, 元器件布局, 線路板走線, 以及使用環境等過程中, 電感本體最高溫度不得超過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
- ◎ 產品注意事項請參閱規格書第6頁
The announcements is on page 7

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電路結構 Connections

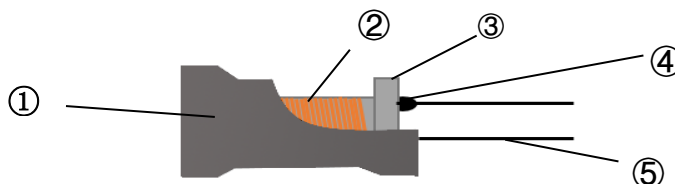


- ◎ 电感内置一组线圈
Inductor Contents ONE (1) Set(s) of Coil
- ◎ 电感使用不需要区分正负方向
DC/AC Current Shall Be Introduced By Any One of Two Pads

實物展示 picture



材料清單 Material List

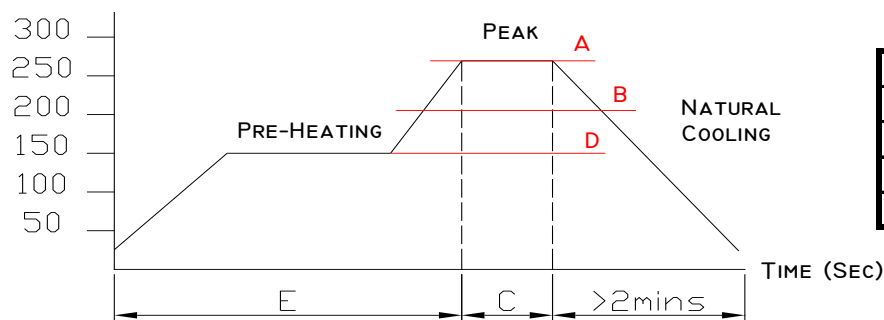


NO.	結構 Structure Name	材料規格 Material Name	材料製造商 Material Manufacturer	UL NO.
①	套管/Cover Tube	黑色套管/Black Cover Tube	SHENZHEN XINGQI PLASTIC PRODUCTS CO., LTD.	E209436
②	銅線/Copper Wire	2UEW 155°C	BOLUO XIN LONG ELECTRICIAN DATA CO LTD	E229423
③	磁芯/Core	8x10鐵氧體磁芯/Ferrite Core 8x10	DONGGUAN FENGHE ELECTRONICS CO., LTD	N. A
④	膠水/Varnish	E962	ZHUHAI CHANGXIAN CHEMICAL CO, LTD	N. A
⑤	電極/Electrode	Sn-Cu0.7	The high tin (huizhou) co., LTD	N. A

焊接溫度（推荐）

Recommended Soldering Temperature Graph

TEMPERATURE (°C)



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



測試數據

TEST REPORT



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測試數據

Test Date

序號	尺寸測試數據					特性測試數據		
	Dimension Test Date					Characteristics Test Date		
	A	B	C	D	E	DCR	Lo	ISAT
	mm	mm	mm	mm	mm	ΩMax	uH±20%	mA
	9.5 Max	12 Max	10 Min	0.6 ± 0.05	5.2 Ref	7.5	4.70	≈30%
1	8.81	11.44	12.69	0.57	5.00	6.49	4.71	PASS
2	8.73	11.40	12.49	0.60	4.96	6.5	4.73	PASS
3	8.83	11.48	12.61	0.60	5.06	6.35	4.77	PASS
4	8.77	11.45	12.75	0.62	4.97	6.48	4.7	PASS
5	8.84	11.50	12.96	0.61	5.02	6.36	4.71	PASS
6	8.73	11.50	12.83	0.62	4.95	6.41	4.69	PASS
7	8.79	11.52	12.57	0.60	4.96	6.36	4.74	PASS
8	8.53	11.49	12.79	0.59	4.97	6.37	4.76	PASS
9	8.67	11.42	12.71	0.59	4.93	6.32	4.73	PASS
10	8.70	11.52	12.78	0.60	4.97	6.35	4.72	PASS
\bar{X}	8.74	11.47	12.72	0.60	4.98	6.399	4.726	
R	0.31	0.12	0.47	0.05	0.13	0.18	0.08	

◎ 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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 - 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°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.

- © The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

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 us. Otherwise, our

- | | |
|--|---|
| 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 | |
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