

產品編碼 P/N	PDMCAT18107-102ML	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
產品系列 Series	共模电感	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 : 共模电感
Series Common Mode Line Chokes

產品編碼 : PDMCAT18107-102ML
Supply P/N

發版號 : A2.0
Version

承認日期 : 2021-5-10
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

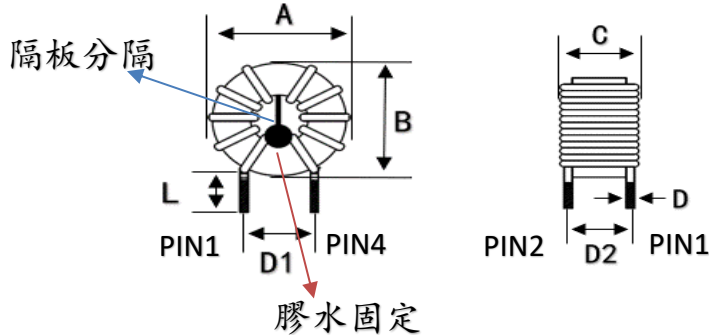
Customer Approval

客戶簽章



產品編碼 P/N	PDMCAT18107-102ML	測試設備 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
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封裝尺寸 Dimension (mm)



18107	封裝尺寸 Dimension
A	22 Max
B	20 Max
C	12 Max
D	1.2 ±0.05
D1	7.5 Ref
D2	8.5 Ref
L	10.0 Min
MPQ	96pcs/托盤

編碼解釋

Code interpretation

PDMCAT 類別碼 Category code	18107 尺寸系列 Dimension	-	102 感值 Inductance	M 精度 Tolerance	L 立式 Vertical type
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電氣參數

Electrical Characteristics

產品編碼 P/N	@ 25 °C Ambient Temperature							
	感值 Inductance	精度 Tolerance	DCR	耐壓 HI-POT		繞組		額定電流 rated current
	N1/N2	N1/N2	mΩ	N1/N2	N1~C/N2~C	N1	N2	
	mH	Min	Max	AC 1500V	AC 600V	Φ1.2mmx8.5T	Φ1.2mmx8.5T	mA
PDMCAT18107-102ML	1	0.8mH	6	AC/60Hz 1mA 3Sec	AC/60Hz 1mA 3Sec	腳1起頭 腳2收尾	腳4起頭 腳3收尾	15000

- ◎ 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 ~ 85°C
Operating temperature range -25 °C to +85 °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85°C
The operating temperature of inductance do not exceed 85°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6頁
The Dimension, Inductance, DCR test data is on page 6
- ◎ 使用電感時，請查閱第7頁注意事項
The announcements is on page 8

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PROD TECHNOLOGY CO., LTD.

深圳市寶安區石岩三聯工業區B棟311

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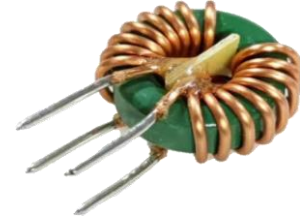
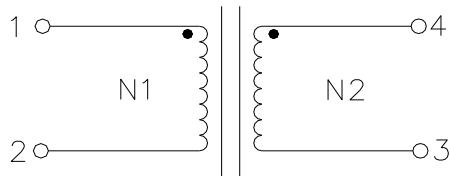
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電感結構

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1.2mm 圈数: 8.5T 中间加隔板点胶水固定

D: 1.2mm Turns: 8.5T

There are isolation plates inside the inductor

材料清單

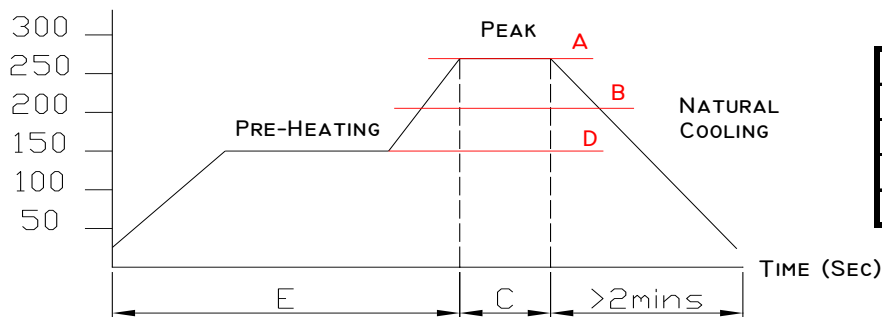
Material List

NO.	材料 ITEM	材質規格 Material	製造商 Manufacturer	UL NO.
1	磁芯/Core	T18*10*7 AL10000	玉峰(或等同廠商規格)	N.A
2	漆包線/Wire	φ1.2mm:2UEW+F 155℃	深港/益达(或等同廠商規格)	N.A
3	隔板/Partition	T=1.5mm	阳光(或等同廠商規格)	N.A
4	助焊剂/Flux	LD-007	乐达(或等同廠商規格)	N.A
5	锡条/Sn	LEAD FREE SOLDER	晟楠(或等同廠商規格)	N.A
6	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)



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	mΩ	Min	
	22 Max	20 Max	12 Max	1.2 ±0.05	7.5 Ref	8.5 Ref	10.0 Min	6	0.8mH	
1	21.56	18.39	10.16	1.21	7.52	8.72	11.44	3.76	1.10	PASS
2	21.37	18.41	9.77	1.20	7.25	8.77	11.23	37.2	1.09	PASS
3	21.34	18.44	9.94	1.19	7.37	8.72	11.14	3.77	0.96	PASS
4	21.59	18.50	9.79	1.19	7.37	8.71	11.21	3.79	1.30	PASS
5	21.43	18.56	9.84	1.20	7.45	8.73	11.24	3.83	0.98	PASS
6	21.58	18.42	9.88	1.20	7.36	8.68	11.18	3.81	1.28	PASS
7	21.36	18.47	9.92	1.19	7.32	8.75	11.24	3.78	0.98	PASS
8	21.42	18.47	9.74	1.21	7.43	8.73	11.26	3.78	1.24	PASS
9	21.67	18.53	9.78	1.21	7.48	8.76	11.14	3.75	1.03	PASS
10	21.42	18.38	9.83	1.21	7.45	8.75	11.28	3.82	1.10	PASS
平均值	21.47	18.46	9.87	1.20	7.40	8.73	11.24	7.129	1.11	

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



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<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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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.
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- © As a magnetic product, the design must consider the possible interaction between peripheral components and the product.

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