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|----------------|-------------------|-------------------------|-----------------------------|
| 產品編碼 P/N | PDMCAT18107-502ML | 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 : PDMCAT18107-502ML
Supply P/N

發版號 : A2.0
Version

承認日期 : 2021-4-27
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 |

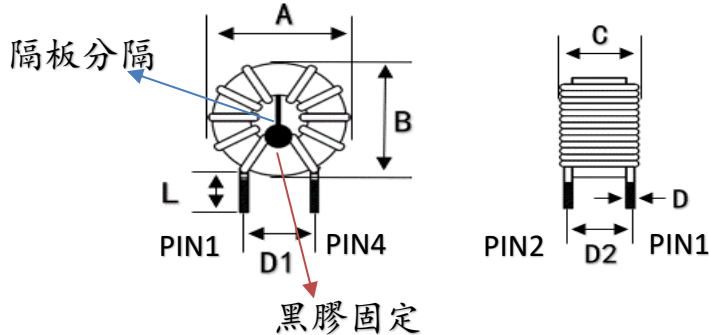
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|---------------------------|
| 客戶承認 Customer Approval |
| |

客戶簽章



| | | | |
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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 | 0.75 ±0.05 |
| D1 | 8.0 Ref |
| D2 | 8.0 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 | - | 502 感值 Inductance | M 精度 Tolerance | L 立式 Vertical type |
|---------------------------------------|-----------------------------------|---|--------------------------------|-----------------------------|---------------------------------|

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 | Φ0.7mmx22.5T | Φ0.7mmx22.5T | mA |
| PDMCAT18107-502ML | 5 | 4mH | 25 | AC/60Hz 1mA 3Sec | AC/60Hz 1mA 3Sec | 腳1起頭 腳2收尾 | 腳4起頭 腳3收尾 | 7000 |

- ◎ 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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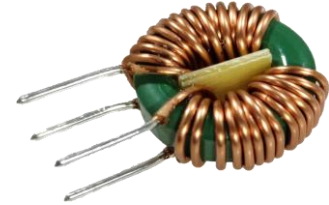
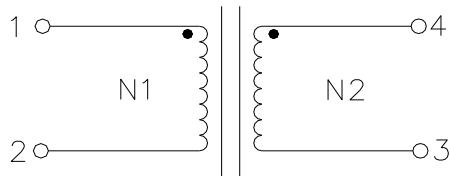
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電感結構

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0.75mm 圈数: 19.5T 中间加隔板点胶水固定
D: 0.75mm Turns: 19.5T
There are isolation plates inside the inductor

材料清單

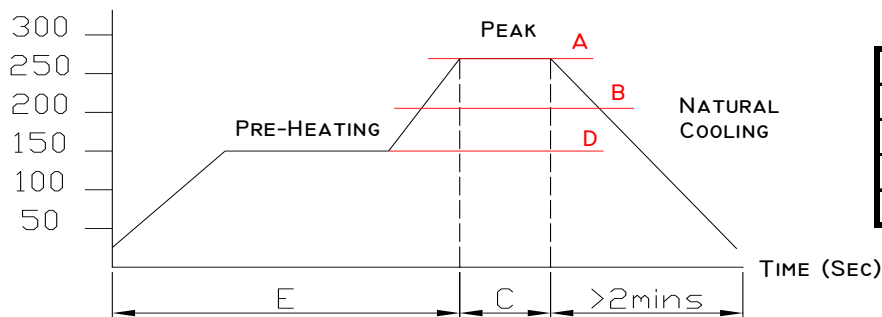
Material List

| NO. | 材料 ITEM | 材質規格 Material | 製造商 Manufacturer | UL NO. |
|-----|--------------|----------------------|-----------------------|--------|
| 1 | 磁芯/Core | T16*12*8 AL10000 | 玉峰(或等同廠商規格) | N.A |
| 2 | 漆包線/Wire | φ0.75mm:2UEW+F 155°C | 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 | 0.75 ±0.05 | 8.0 Ref | 8.0 Ref | 10.0 Min | 25 | 4mH | |
| 1 | 20.50 | 18.35 | 9.72 | 0.76 | 8.36 | 8.37 | 11.57 | 20.5 | 8.19 | PASS |
| 2 | 20.46 | 18.55 | 9.80 | 0.76 | 8.31 | 7.94 | 11.47 | 20.2 | 7.62 | PASS |
| 3 | 20.52 | 18.56 | 9.84 | 0.76 | 7.74 | 7.84 | 10.88 | 20.3 | 8.00 | PASS |
| 4 | 20.56 | 18.47 | 9.75 | 0.75 | 7.9 | 7.98 | 10.99 | 20.6 | 7.51 | PASS |
| 5 | 20.78 | 18.43 | 9.88 | 0.75 | 7.88 | 7.93 | 10.88 | 20.2 | 8.55 | PASS |
| 6 | 20.64 | 18.66 | 9.78 | 0.76 | 8.21 | 8.15 | 11.14 | 19.1 | 8.24 | PASS |
| 7 | 20.57 | 18.45 | 9.82 | 0.76 | 8.16 | 8.13 | 11.23 | 20.6 | 7.28 | PASS |
| 8 | 20.63 | 18.48 | 9.65 | 0.75 | 8.23 | 8.24 | 11.12 | 20.1 | 7.31 | PASS |
| 9 | 20.54 | 18.52 | 9.84 | 0.75 | 8.14 | 7.89 | 10.99 | 20.8 | 8.04 | PASS |
| 10 | 20.72 | 18.63 | 9.86 | 0.76 | 7.88 | 7.95 | 10.97 | 20.5 | 7.56 | PASS |
| 平均值 | 20.59 | 18.51 | 9.79 | 0.76 | 8.08 | 8.04 | 11.12 | 20.29 | 7.83 | |

◎ 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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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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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.
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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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