

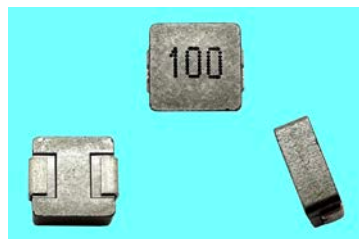


Fonrita  
方瑞達電子

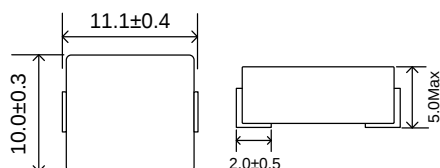
# MOLDING POWER INDUCTORS

一體成型電感

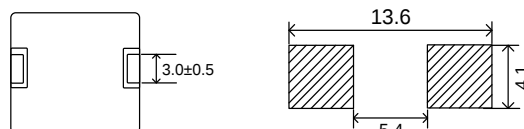
Type: FDMC1050



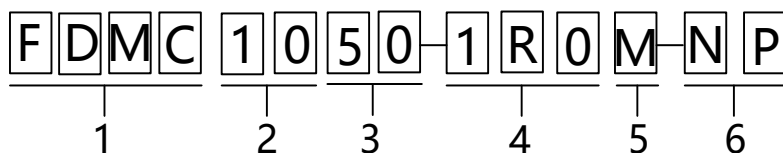
Dimensions外形尺寸(mm)



Recommended Land Pattern(mm)



## PRODUCT IDENTIFICATION/產品標識



1. Product symbol/產品類型 : FDMC (shield/屏蔽)
2. Body length/產品長度 : mm
3. Body height/產品高度 : mm
4. Inductance/感量 :  $\mu\text{H}$
5. Tolerance/公差 : M  $\pm 20\%$ , N  $\pm 30\%$
6. RoHs Compliant(SGS Certified)

本產品滿足環境保護要求(有害物質限用)



## FEATURES:

- Quantity/reel:1000PCS.
- Square 11.5mm Max,Height 5.0mm Max.
- Powder iron core material.
- High current,low DCR,high efficiency.
- Widely use in DC-DC converter/Notebook/CPU/Portable communications equipment/Camcorders/HDTV/car audio .

## 特長:

- 數量/卷:1000PCS.
- 方形11.5mm Max,高度5.0mm Max.
- 鐵合金材料.
- 大電流, 低直流電阻, 高效率.
- 廣泛應用於升降壓轉換器/筆記本電腦/電腦主板/便攜式通訊設備/攝像機/高清電視/汽車音響.

## ELECTRICAL CHARACTERISTICS/電氣特性

| Part NO.<br>品名 | Inductance<br>電感量( $\mu\text{H}$ ) | Tolerance<br>公差(%) | D.C.R. 直流電阻      |                  | I sat(Max)<br>飽和電流(A) | I rms(Max)<br>溫升電流(A) |
|----------------|------------------------------------|--------------------|------------------|------------------|-----------------------|-----------------------|
|                |                                    |                    | Typ(m $\Omega$ ) | Max(m $\Omega$ ) |                       |                       |
| FDMC1050-R22   | 0.22                               | M                  | 0.70             | 0.80             | 57.5                  | 32.5                  |
| FDMC1050-R47   | 0.47                               | M                  | 1.40             | 1.60             | 36.0                  | 29.0                  |
| FDMC1050-R68   | 0.68                               | M                  | 1.70             | 1.95             | 30.0                  | 19.0                  |
| FDMC1050-1R0   | 1.0                                | M                  | 2.70             | 3.00             | 28.0                  | 20.3                  |
| FDMC1050-1R5   | 1.5                                | M                  | 3.40             | 3.80             | 22.0                  | 18.5                  |
| FDMC1050-2R2   | 2.2                                | M                  | 6.00             | 7.00             | 18.0                  | 11.5                  |
| FDMC1050-3R3   | 3.3                                | M                  | 8.60             | 10.0             | 14.0                  | 11.5                  |
| FDMC1050-4R7   | 4.7                                | M                  | 13.5             | 15.5             | 13.2                  | 9.7                   |
| FDMC1050-5R6   | 5.6                                | M                  | 14.6             | 17.0             | 12.3                  | 8.5                   |
| FDMC1050-6R8   | 6.8                                | M                  | 23.0             | 25.5             | 10.0                  | 8.0                   |
| FDMC1050-100   | 10                                 | M                  | 27.0             | 30.0             | 8.5                   | 7.0                   |
| FDMC1050-150   | 15                                 | M                  | 38.0             | 42.0             | 6.5                   | 5.7                   |
| FDMC1050-220   | 22                                 | M                  | 60.0             | 66.0             | 5.5                   | 5.0                   |
| FDMC1050-330   | 33                                 | M                  | 87.0             | 92.0             | 4.4                   | 4.0                   |
| FDMC1050-470   | 47                                 | M                  | 130.0            | 140.0            | 3.5                   | 3.2                   |
| FDMC1050-680   | 68                                 | M                  | 191.0            | 205.0            | 2.8                   | 2.4                   |
| FDMC1050-101   | 100                                | M                  | 320.0            | 340.0            | 2.5                   | 1.8                   |

Inductance Range/電感範圍:0.22~100 $\mu\text{H}$

Operating Temperature/工作溫度:-40°C ~ +125°C

Storage Temperature/儲存溫度:-40°C ~ +125°C

(1) Test frequency :100KHz/1.0V;

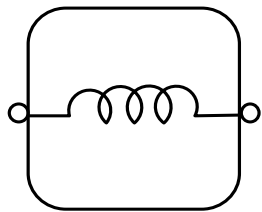
(2) The maximum allowable current is a DC current which causes initial inductance to decrease by 30%,or temperature to rise by 40°C, whichever is smaller(At ambient reference temperature:25°C).

(1) 電感測試頻率:100KHz/1.0V;

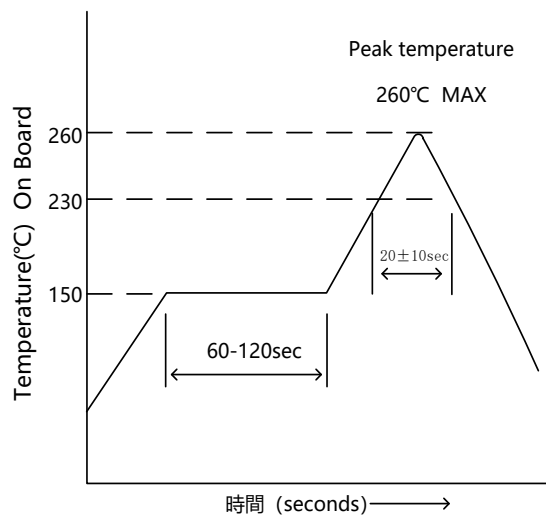
(2) 最大容許電流定義:電感下降30%或溫度上升40°C時,取其小值作為最大容許電流(周圍環境溫度25°C).



Electrical Schematic/原理圖



Recommended Temperature Conditions of Air Reflow Soldering/推薦回流焊溫度條件



In addition to the standards versions shown here, custom inductors are also available to meet your exact requirements.

除了這裡顯示的標準品之外,可根據客戶要求進行設計.

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