



Fonrita  
方瑞達電子

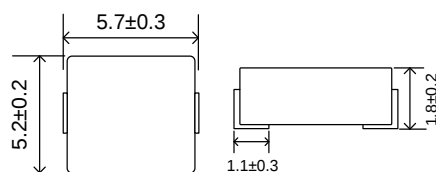
# MOLDING POWER INDUCTORS

一體成型電感

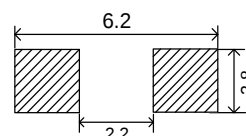
Type: CDMC0520



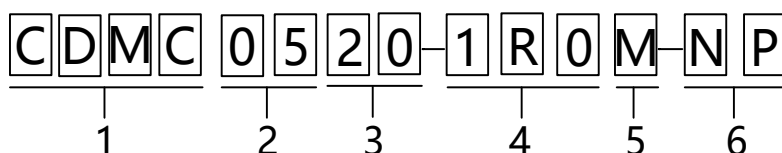
Dimensions外形尺寸 (mm)



Recommended Land Pattern (mm)



## PRODUCT IDENTIFICATION/產品標識



1. Product symbol/產品類型 : CDMC (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:3000PCS.
- Square 5.7mm type(6.0mm Max),Height 2.0mm Max.
- Carbonyl Powder.
- 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:3000PCS.
- 方形5.7mm(6.0mm Max),高度2.0mm Max.
- 材質羰基粉.
- 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(Typ.)<br>飽和電流(A) | I rms(Typ.)<br>溫升電流(A) |
|----------------|------------------------------------|--------------------|------------------|------------------|------------------------|------------------------|
|                |                                    |                    | Typ(m $\Omega$ ) | Max(m $\Omega$ ) |                        |                        |
| CDMC0520-R10   | 0.10                               | N                  | 3.6              | 4.0              | 45.0                   | 18.0                   |
| CDMC0520-R15   | 0.15                               | N                  | 3.8              | 4.6              | 27.0                   | 16.0                   |
| CDMC0520-R22   | 0.22                               | M                  | 4.0              | 5.5              | 25.0                   | 15.0                   |
| CDMC0520-R33   | 0.33                               | M                  | 6.3              | 7.3              | 21.3                   | 12.0                   |
| CDMC0520-R47   | 0.47                               | M                  | 7.3              | 8.6              | 18.0                   | 11.5                   |
| CDMC0520-R68   | 0.68                               | M                  | 11.0             | 12.4             | 12.8                   | 10.0                   |
| CDMC0520-1R0   | 1.0                                | M                  | 17.5             | 20.0             | 13.7                   | 7.0                    |
| CDMC0520-1R5   | 1.5                                | M                  | 26.5             | 30.5             | 9.8                    | 5.5                    |
| CDMC0520-2R2   | 2.2                                | M                  | 42.0             | 50.0             | 9.0                    | 4.2                    |
| CDMC0520-3R3   | 3.3                                | M                  | 66.0             | 76.0             | 7.3                    | 3.3                    |
| CDMC0520-4R7   | 4.7                                | M                  | 103.0            | 116.0            | 5.0                    | 2.8                    |
| CDMC0520-5R6   | 5.6                                | M                  | 112.0            | 122.0            | 4.0                    | 2.5                    |
| CDMC0520-6R8   | 6.8                                | M                  | 130.0            | 150.0            | 3.8                    | 2.4                    |
| CDMC0520-8R2   | 8.2                                | M                  | 148.0            | 171.0            | 3.5                    | 2.3                    |
| CDMC0520-100   | 10                                 | M                  | 180.0            | 199.0            | 3.4                    | 2.3                    |
| CDMC0520-150   | 15                                 | M                  | 240.0            | 270.0            | 2.8                    | 1.9                    |
| CDMC0520-220   | 22                                 | M                  | 350.0            | 390.0            | 1.8                    | 1.5                    |

Inductance Range/電感範圍:0.1~22 $\mu\text{H}$

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;

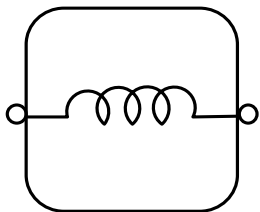
(2) The maximum allowable current is a DC current which causes initial inductance to decrease by 30%,or temperature to rise by 40°C, whichever is smaller(At ambient reference temperature:25°C).

(1) 電感測試頻率:100KHz/1.0V;

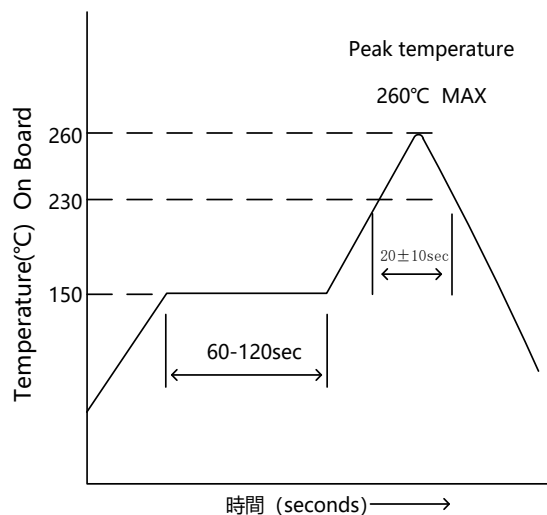
(2) 最大容許電流定義:電感下降30%或溫度上升40°C時,取其小值作為最大容許電流(周圍環境溫度25°C).



## 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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