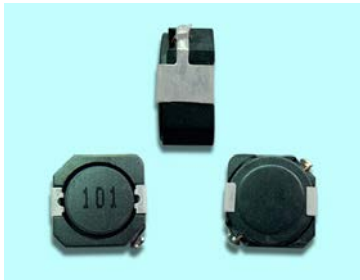
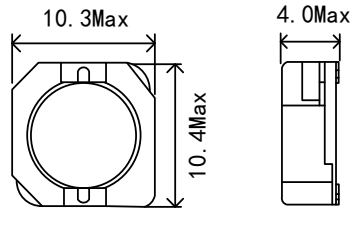




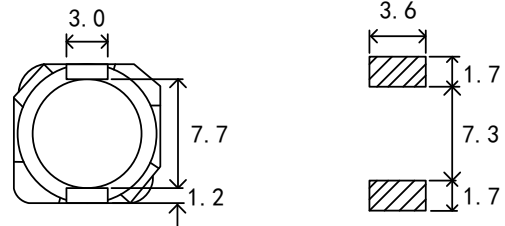
Type: FDRH104R



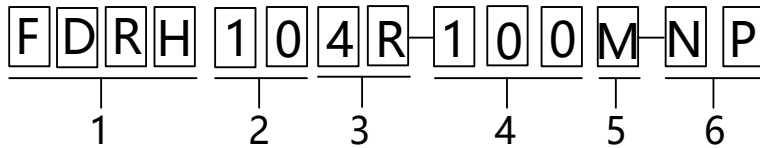
Dimensions外形尺寸(mm)



Recommended Land Pattern(mm)



PRODUCT IDENTIFICATION/產品標識



1. Product symbol/產品類型 : FDRH (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 10.0mm type(10.4mm Max),Height 4.0mm Max.
- Magnetically shielded construction.
- Suitable for reflow soldering.
- Widely use in DC-DC converter/LCD TV/Notebook/PDA/Digital camera/Portable CDR-W etc.

特長:

- 數量/卷:1000PCS.
- 方形10.0mm(10.4mm Max),高度4.0mm Max.
- 閉磁路構造設計.
- 適用於回流焊SMT工藝.
- 廣泛應用於升降壓轉換器/液晶顯示器/筆記本電腦/個人掌上記事本/數碼相機/便攜式光碟機等.

ELECTRICAL CHARACTERISTICS/電氣特性

| Part NO.<br>品名 | Inductance<br>電感量( $\mu\text{H}$ ) | Tolerance<br>公差(%) | DC Resistance<br>直流電阻Max( $\Omega$ ) | I sat(Max)<br>飽和電流(A) | I rms(Max)<br>溫升電流(A) |
|----------------|------------------------------------|--------------------|--------------------------------------|-----------------------|-----------------------|
| FDRH104R-1R5   | 1.5                                | N                  | 0.0081                               | 10.00                 | 6.50                  |
| FDRH104R-2R5   | 2.5                                | N                  | 0.0105                               | 7.50                  | 6.10                  |
| FDRH104R-3R8   | 3.8                                | N                  | 0.013                                | 6.00                  | 5.50                  |
| FDRH104R-5R2   | 5.2                                | N                  | 0.022                                | 5.50                  | 5.40                  |
| FDRH104R-7R0   | 7.0                                | N                  | 0.027                                | 4.80                  | 4.50                  |
| FDRH104R-100   | 10                                 | M                  | 0.035                                | 4.40                  | 3.80                  |
| FDRH104R-120   | 12                                 | M                  | 0.046                                | 3.70                  | 3.40                  |
| FDRH104R-150   | 15                                 | M                  | 0.050                                | 3.60                  | 3.10                  |
| FDRH104R-180   | 18                                 | M                  | 0.069                                | 3.10                  | 2.60                  |
| FDRH104R-220   | 22                                 | M                  | 0.073                                | 2.90                  | 2.50                  |
| FDRH104R-270   | 27                                 | M                  | 0.088                                | 2.60                  | 2.30                  |
| FDRH104R-330   | 33                                 | M                  | 0.093                                | 2.30                  | 2.20                  |
| FDRH104R-390   | 39                                 | M                  | 0.127                                | 2.20                  | 2.00                  |
| FDRH104R-470   | 47                                 | M                  | 0.128                                | 2.10                  | 1.90                  |
| FDRH104R-560   | 56                                 | M                  | 0.188                                | 1.65                  | 1.50                  |
| FDRH104R-680   | 68                                 | M                  | 0.213                                | 1.50                  | 1.42                  |
| FDRH104R-820   | 82                                 | M                  | 0.283                                | 1.45                  | 1.30                  |
| FDRH104R-101   | 100                                | M                  | 0.304                                | 1.35                  | 1.25                  |
| FDRH104R-121   | 120                                | M                  | 0.375                                | 1.20                  | 1.08                  |
| FDRH104R-151   | 150                                | M                  | 0.506                                | 1.15                  | 0.85                  |
| FDRH104R-181   | 180                                | M                  | 0.568                                | 1.00                  | 0.75                  |
| FDRH104R-221   | 220                                | M                  | 0.756                                | 0.92                  | 0.70                  |
| FDRH104R-271   | 270                                | M                  | 0.853                                | 0.84                  | 0.55                  |
| FDRH104R-331   | 330                                | M                  | 1.090                                | 0.70                  | 0.52                  |

Inductance Range/電感範圍:1.5~330 $\mu\text{H}$

Operating Temperature/工作溫度:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Storage Temperature/儲存溫度:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

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

(2) The maximum allowable current is a DC current which causes initial inductance to decrease by 35%,or temperature to rise by  $40^{\circ}\text{C}$ , whichever is smaller(At ambient reference temperature: $25^{\circ}\text{C}$ ).

(1) 電感測試頻率:100KHz/1.0V;

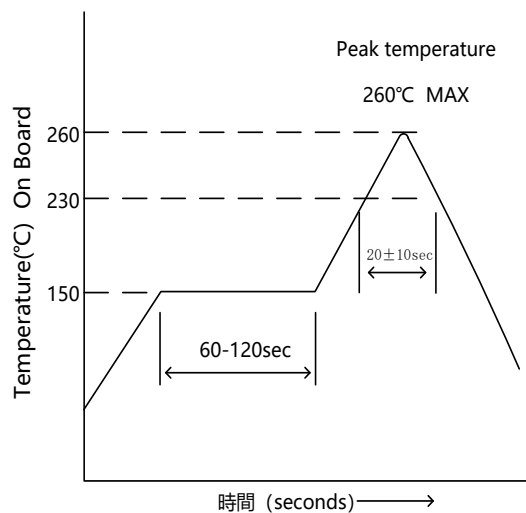
(2) 最大容許電流定義:電感下降35%或溫度上升 $40^{\circ}\text{C}$ 時,取其小值作為最大容許電流(周圍環境溫度 $25^{\circ}\text{C}$ ).



## 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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