

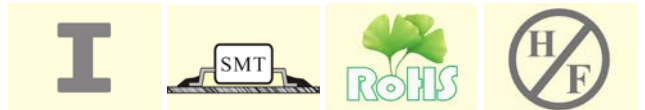
# SMT Unshielded Power Inductors GSD7018F / GSD7025F

## Features (特長)

- Open Magnetic circuit construction (開磁路構造設計)
- Low Profile (薄型結構)
- Low cost (低價格)

## Applications (用途)

- LCD Driver (LCD 驅動器)
- Small DC/DC converter (小型直流轉換器)



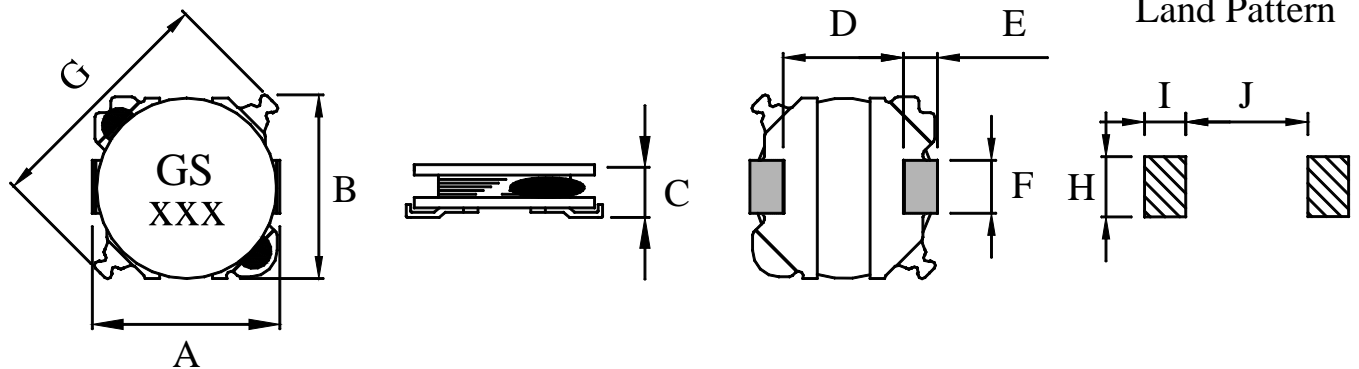
## Product Identification (產品識別)

GSD7018F - \_\_\_\_\_ (Ex. GSD7018F-2R2M)

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1. SMT Unshielded Power Inductors (開放式功率電感)  
(GSD7018F, GSD7025F)
2. Inductance (電感值)
3. Tolerance (誤差值) ( 參照表 M 20% , N 30% )

## Configurations & Dimensions (結構圖及規格尺寸)



Unit In mm

Type (型式)	A	B	C (max)	D	E	F	G	H	I	J
GSD7018F	7.0	7.0	1.8±0.2	4.50	1.25	2.00	9.0	3.0	2.0	4.4
GSD7025F	7.0	7.0	2.50	4.50	1.25	2.00	9.0	3.0	2.0	4.4

♣Design as Customer's Requested Specifications. (可依客戶特殊需求設計)

# SMT Unshielded Power Inductors

## GSD7018F

Electrical Characteristics for GSD7018F Series [GSD7018F 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
GSD7018F – 2R2M	2.20	100	0.0580	2.70
GSD7018F – 3R3M	3.30	100	0.0680	2.50
GSD7018F – 4R7M	4.70	100	0.0910	2.30
GSD7018F – 6R8M	6.80	100	0.1190	2.00
GSD7018F – 100M	10.00	100	0.1910	1.50
GSD7018F – 120M	12.00	100	0.2140	1.45
GSD7018F – 150M	15.00	100	0.2620	1.30
GSD7018F – 220M	22.00	100	0.3680	1.10
GSD7018F – 330M	33.00	100	0.5090	1.00
GSD7018F – 470M	47.00	100	0.7920	0.80

※Test Freq. : 100KHz / 0.1V.

※Operating Temp. :  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

※Inductance drop = 10% typ. at IDC.

※ $\Delta T=40^{\circ}\text{C}$  rise at IDC.

※Storage Temperature&Humidity :  $\leq 40^{\circ}\text{C}$  & 70% RH maximum

## GSD7025F

Electrical Characteristics for GSD7025F Series [GSD7025F 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
GSD7025F – 2R2M	2.20	100	0.0355	3.7
GSD7025F – 3R3M	3.30	100	0.0460	3.5
GSD7025F – 4R7M	4.70	100	0.0580	2.9
GSD7025F – 6R8M	6.80	100	0.0800	2.7
GSD7025F – 100M	10.00	100	0.0900	2.5
GSD7025F – 120M	12.00	100	0.1250	2.1
GSD7025F – 150M	15.00	100	0.1450	1.8
GSD7025F – 220M	22.00	100	0.2050	1.4
GSD7025F – 330M	33.00	100	0.3200	1.2
GSD7025F – 470M	47.00	100	0.4420	1.0

※Test Freq. : 100KHz / 0.1V.

※Operating Temp. :  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

※Inductance drop = 25% typ. at IDC.

※ $\Delta T=40^{\circ}\text{C}$  rise at IDC.

※Storage Temperature&Humidity :  $\leq 40^{\circ}\text{C}$  & 70% RH maximum