

# SMT Shielded Power Inductors

## GSCR6045 / GSCR8040

### Features (特長)

- Magnetically shielded construction (閉磁路構造設計)
- Compact and thin (輕便薄小)
- Large Current and Low DCR (大電流低直流阻抗)

### Applications (用途)

- DC-DC converter of portable equipment. (攜帶機器之直流轉換器)
- Camcorder, LCD television set, Digital camera, P.D.A., Notebook. (攝影機、液晶電視、數位相機、P.D.A.、筆記型電腦)



### Product Identification (產品識別)

GSCR6045 - \_\_\_\_\_ (Ex. GSCR6045-2R2N)

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1. SMT Shielded Power Inductors (閉磁式功率電感)  
(GSCR6045, GSCR8040)
2. Inductance (電感值)
3. Tolerance (誤差值) ( 參照表 M 20%, N 30% )

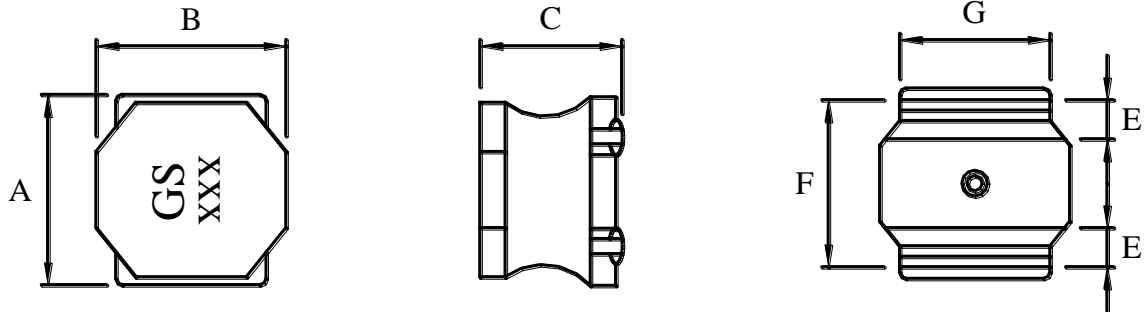


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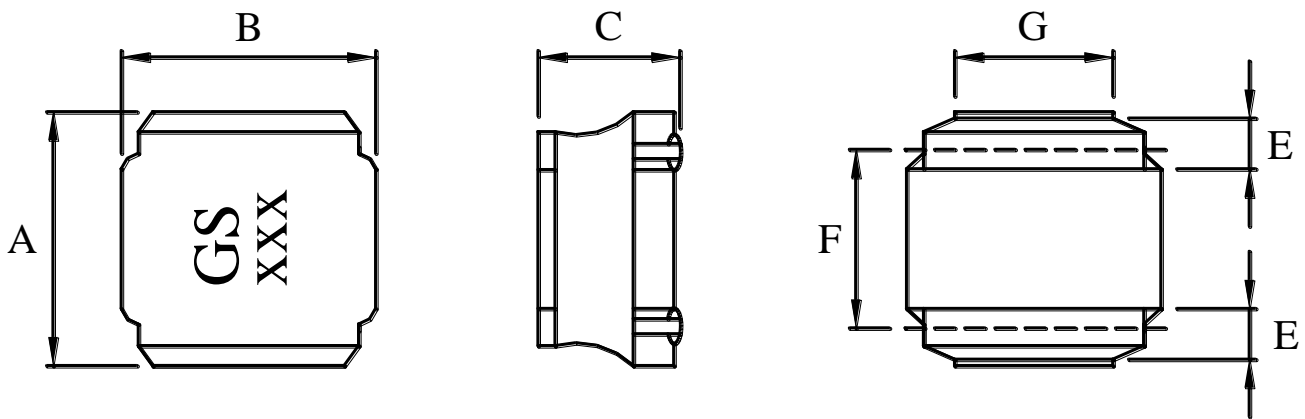
## GSCR6045 / GSCR8040

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

### GSCR6045



### GSCR8040



Unit In mm

Type (型式)	A $\pm 0.2$	B $\pm 0.2$	C (max)	E $\pm 0.3$	F	G
GSCR6045	6.0	6.0	4.5	1.35	$4.5 \pm 0.5$	$5.0 \pm 0.5$
GSCR8040	8.0	8.0	4.5	1.6	$5.6 \pm 0.3$	$5.5 \pm 0.4$

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

# SMT Shielded Power Inductors

## GSCR6045

Electrical Characteristics for GSCR6045 Series [GSCR6045 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 (m $\Omega$ ) $\pm$ 30% 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 溫昇電流
GSCR6045 – 2R2N	2.2	100	21.0	6.0	3.5
GSCR6045 – 4R7N	4.7	100	31.0	4.0	3.0
GSCR6045 – 6R8N	6.8	100	40.0	3.8	2.8
GSCR6045 – 100M	10.0	100	47.0	3.0	2.5
GSCR6045 – 150M	15.0	100	77.0	2.3	1.9
GSCR6045 – 220M	22.0	100	115.0	1.9	1.5
GSCR6045 – 330M	33.0	100	145.0	1.5	1.4
GSCR6045 – 470M	47.0	100	220.0	1.3	1.1
GSCR6045 – 680M	68.0	100	330.0	1.0	0.9
GSCR6045 – 101M	100.0	100	500.0	0.8	0.7

※Test Freq. : 100KHz / 1V.

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

※Inductance drop = 30% typ. at Isat.

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

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

## GSCR8040

Electrical Characteristics for GSCR8040 Series [GSCR8040 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 (m $\Omega$ ) (max) 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 溫昇電流
GSCR8040 – 4R7N	4.7	100	34.0	4.7	4.1
GSCR8040 – 8R2N	8.2	100	45.5	4.0	3.8
GSCR8040 – 100M	10.0	100	52.0	3.4	3.1
GSCR8040 – 150M	15.0	100	68.0	2.7	2.4
GSCR8040 – 220M	22.0	100	86.0	2.2	2.2
GSCR8040 – 330M	33.0	100	130.0	1.9	1.7
GSCR8040 – 470M	47.0	100	195.0	1.5	1.4
GSCR8040 – 560M	56.0	100	240.5	1.3	1.2
GSCR8040 – 680M	68.0	100	299.0	1.2	1.1
GSCR8040 – 101M	100.0	100	390.0	1.0	1.0

※Test Freq. : 100KHz / 1V.

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

※Inductance drop = 30% typ. at Isat.

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

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