

SMT Shielded Power Inductors GSRH103R/GSRH104R/GSRH105R

Features (特長)

- Magnetically shielded construction (閉磁路構造設計)
- Compact and thin (輕便薄小)
- Wire burst resistant due to special construction. (斷線對策構造)

Applications (用途)

- DC-DC converter transformer, LCD TV, Notebook, VCR Camera.
(直流轉換變壓器、液晶電視、筆記型電腦、攝影機)



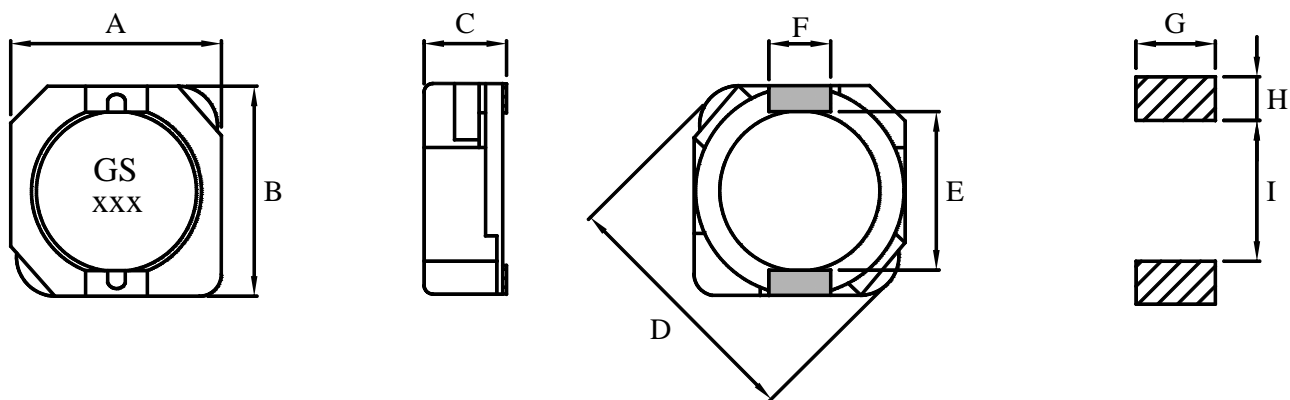
Product Identification (產品識別)

GSRH103R - (Ex. GSRH103R-100M)
1 2 3

1. SMT Shielded Power Inductors (閉磁式功率電感)
(GSRH103R, GSRH104R, GSRH105R)
2. Inductance (電感值)
3. Tolerance (誤差值) (參照表 K 10%, L 15%, M 20%, N 30%)



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



Unit In mm

Type (型式)	A (max)	B (max)	C (max)	D (max)	E ±0.3	F ±0.1	G	H	I
GSRH103R	10.3	10.4	3.0	13.5	7.7	3.0	3.6	1.7	7.3
GSRH104R	10.3	10.4	4.0	13.5	7.7	3.0	3.6	1.7	7.3
GSRH105R	10.3	10.4	5.0	13.5	7.7	3.0	3.6	1.7	7.3

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

SMT Shielded Power Inductors

GSRH103R

Electrical Characteristics for GSRH103R Series [GSRH103R 系列電子特性規格]

Part Number 產品料號	Inductance (μ H) 電感值(L)	Test Freq. (KHz) 測試頻率	DCR (Ω) (max) 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 溫昇電流
GSRH103R-100M	10.00	100	0.0581	2.70	2.80
GSRH103R-120M	12.00	100	0.0721	2.25	2.10
GSRH103R-150M	15.00	100	0.0865	2.22	2.05
GSRH103R-180M	18.00	100	0.1161	1.90	1.80
GSRH103R-220M	22.00	100	0.1454	1.78	1.60
GSRH103R-270M	27.00	100	0.1759	1.63	1.50
GSRH103R-330M	33.00	100	0.2134	1.46	1.35
GSRH103R-390M	39.00	100	0.2689	1.32	1.25
GSRH103R-470M	47.00	100	0.2986	1.18	1.20
GSRH103R-560M	56.00	100	0.3358	1.10	1.15
GSRH103R-680M	68.00	100	0.4513	1.04	0.98
GSRH103R-820M	82.00	100	0.5138	0.94	0.80
GSRH103R-101M	100.00	100	0.7000	0.84	0.70
GSRH103R-121M	120.00	100	0.7650	0.76	0.65
GSRH103R-151M	150.00	100	0.8763	0.70	0.51

※Test Freq. : 100KHz / 1V.

※Operating Temp. : -40°C ~ $+85^{\circ}\text{C}$

※Inductance drop=25% typ. at Isat.

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

SMT Shielded Power Inductors

GSRH104R

Electrical Characteristics for GSRH104R Series [GSRH104R 系列電子特性規格]

Part Number 產品料號	Inductance (μ H) 電感值(L)	Test Freq. (KHz) 測試頻率	DCR (Ω) (max) 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 溫昇電流
GSRH104R-1R3N	1.30	100	0.0081	10.00	6.50
GSRH104R-2R5N	2.50	100	0.010	7.50	6.10
GSRH104R-3R8N	3.80	100	0.013	6.00	5.50
GSRH104R-5R2N	5.20	100	0.022	5.50	5.40
GSRH104R-7R0N	7.00	100	0.027	4.80	4.50
GSRH104R-100M	10.00	100	0.035	4.40	3.80
GSRH104R-150M	15.00	100	0.050	3.60	3.10
GSRH104R-220M	22.00	100	0.073	2.90	2.50
GSRH104R-330M	33.00	100	0.093	2.30	2.20
GSRH104R-470M	47.00	100	0.128	2.10	1.90
GSRH104R-680M	68.00	100	0.213	1.50	1.42
GSRH104R-101M	100.00	100	0.304	1.35	1.25
GSRH104R-151M	150.00	100	0.506	1.15	0.85
GSRH104R-221M	220.00	100	0.756	0.92	0.70
GSRH104R-331M	330.00	100	1.090	0.70	0.52

※Test Freq. : 100KHz / 1V.

※Operating Temp. : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

※Inductance drop=35% typ. at Isat.

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

SMT Shielded Power Inductors

GSRH105R

Electrical Characteristics for GSRH105R Series [GSRH105R 系列電子特性規格]

Part Number 產品料號	Inductance (μ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR (Ω) (max) 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 溫昇電流
GSRH105R-100M	10.00	100	0.0258	3.45	4.50
GSRH105R-120M	12.00	100	0.0320	3.40	3.80
GSRH105R-150M	15.00	100	0.0400	2.83	3.70
GSRH105R-180M	18.00	100	0.0460	2.62	3.10
GSRH105R-220M	22.00	100	0.0585	2.44	3.00
GSRH105R-270M	27.00	100	0.0654	2.24	2.60
GSRH105R-330M	33.00	100	0.0814	1.88	2.50
GSRH105R-390M	39.00	100	0.1031	1.70	2.25
GSRH105R-470M	47.00	100	0.1221	1.56	2.20
GSRH105R-560M	56.00	100	0.1448	1.39	1.90
GSRH105R-680M	68.00	100	0.1930	1.36	1.60
GSRH105R-820M	82.00	100	0.2194	1.20	1.50
GSRH105R-101M	100.00	100	0.2470	1.09	1.35
GSRH105R-121M	120.00	100	0.2984	1.00	1.20
GSRH105R-151M	150.00	100	0.3551	0.91	1.15
GSRH105R-181M	180.00	100	0.3943	0.84	1.10
GSRH105R-221M	220.00	100	0.4838	0.75	1.00
GSRH105R-271M	270.00	100	0.6325	0.68	0.80
GSRH105R-331M	330.00	100	0.7800	0.60	0.75
GSRH105R-391M	390.00	100	0.9575	0.57	0.70
GSRH105R-471M	470.00	100	1.2204	0.50	0.54
GSRH105R-561M	560.00	100	1.3524	0.47	0.52
GSRH105R-681M	680.00	100	1.5192	0.43	0.51
GSRH105R-821M	820.00	100	1.6944	0.39	0.48
GSRH105R-102M	1000.00	100	1.9464	0.35	0.42

※Test Freq. : 100KHz / 1V.

※Operating Temp. : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

※Inductance drop=35% typ. at Isat.

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