

SMT Shielded Power Inductors GSD73C / GSD75C

Features (特長)

- Magnetically shielded construction (閉磁路構造設計)
- Compact and thin (輕便薄小)
- For large currents (適合大電流)

Applications (用途)

- Notebook, Portable communication equipments, DC/DC converters. (筆記型電腦、小型通信機器、直流轉換器)



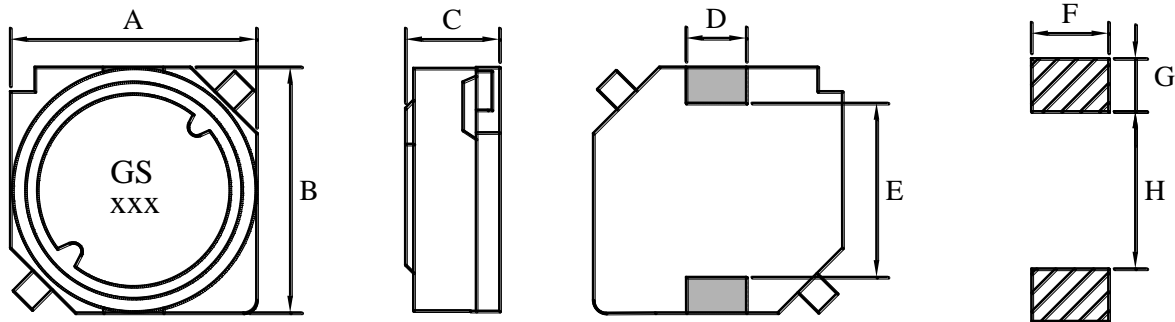
Product Identification (產品識別)

GSD73C - _____ (Ex. GSD73C-1R0M)

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1. SMT Shielded Power Inductors (閉磁式功率電感) (GSD73C, GSD75C)
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 ±0.2	E (max)	F	G	H
GSD73C	7.4	7.4	3.5	2.0	5.4	3.0	2.0	4.4
GSD75C	7.4	7.4	5.1	2.0	5.4	3.0	2.0	4.4

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



SMT Shielded Power Inductors

GSD73C

Electrical Characteristics for GSD73C Series [GSD73C 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	IDC (A) (max) 定格電流
GSD73C – 1R0M	1.00	1	0.019	3.12
GSD73C – 1R5M	1.50	1	0.023	2.85
GSD73C – 1R8M	1.80	1	0.028	2.66
GSD73C – 2R2M	2.20	1	0.028	2.66
GSD73C – 2R7M	2.70	1	0.030	2.40
GSD73C – 3R3M	3.30	1	0.035	2.26
GSD73C – 4R7M	4.70	1	0.043	1.96
GSD73C – 5R6M	5.60	1	0.050	1.80
GSD73C – 6R8M	6.80	1	0.055	1.76
GSD73C – 8R2M	8.20	1	0.065	1.50
GSD73C – 100M	10.00	1	0.080	1.34
GSD73C – 120M	12.00	1	0.090	1.23
GSD73C – 150M	15.00	1	0.120	1.09
GSD73C – 180M	18.00	1	0.130	0.99
GSD73C – 220M	22.00	1	0.150	0.90
GSD73C – 270M	27.00	1	0.210	0.81
GSD73C – 330M	33.00	1	0.250	0.72
GSD73C – 390M	39.00	1	0.310	0.67
GSD73C – 470M	47.00	1	0.350	0.60
GSD73C – 560M	56.00	1	0.430	0.55
GSD73C – 680M	68.00	1	0.520	0.50
GSD73C – 820M	82.00	1	0.600	0.46
GSD73C – 101M	100.00	1	0.790	0.41
GSD73C – 121M	120.00	1	0.804	0.35
GSD73C – 151M	150.00	1	1.100	0.30
GSD73C – 181M	180.00	1	1.250	0.28
GSD73C – 221M	220.00	1	1.560	0.25
GSD73C – 271M	270.00	1	1.830	0.24
GSD73C – 331M	330.00	1	2.900	0.23
GSD73C – 391M	390.00	1	3.300	0.22
GSD73C – 471M	470.00	1	3.600	0.21
GSD73C – 561M	560.00	1	4.100	0.19
GSD73C – 681M	680.00	1	4.600	0.18
GSD73C – 821M	820.00	1	5.900	0.12
GSD73C – 102M	1000.00	1	7.020	0.10

※Test Freq. : 1KHz / 0.25V

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

※Inductance drop = 10% typ. at IDC.

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

SMT Shielded Power Inductors

GSD75C

Electrical Characteristics for GSD75C Series [GSD75C 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	IDC (A) (max) 定格電流
GSD75C – 1R0M	1.00	1	0.023	2.88
GSD75C – 1R2M	1.20	1	0.025	2.85
GSD75C – 1R5M	1.50	1	0.027	2.61
GSD75C – 2R2M	2.20	1	0.030	2.46
GSD75C – 3R3M	3.30	1	0.035	2.28
GSD75C – 4R7M	4.70	1	0.041	2.08
GSD75C – 5R6M	5.60	1	0.044	2.00
GSD75C – 6R8M	6.80	1	0.047	1.94
GSD75C – 8R2M	8.20	1	0.048	1.80
GSD75C – 100M	10.00	1	0.050	1.68
GSD75C – 120M	12.00	1	0.070	1.54
GSD75C – 150M	15.00	1	0.080	1.39
GSD75C – 180M	18.00	1	0.090	1.26
GSD75C – 220M	22.00	1	0.110	1.13
GSD75C – 270M	27.00	1	0.150	1.02
GSD75C – 330M	33.00	1	0.170	0.84
GSD75C – 390M	39.00	1	0.180	0.80
GSD75C – 470M	47.00	1	0.200	0.76
GSD75C – 560M	56.00	1	0.280	0.64
GSD75C – 680M	68.00	1	0.320	0.60
GSD75C – 820M	82.00	1	0.350	0.57
GSD75C – 101M	100.00	1	0.400	0.50
GSD75C – 121M	120.00	1	0.440	0.47
GSD75C – 151M	150.00	1	0.730	0.40
GSD75C – 181M	180.00	1	0.780	0.39
GSD75C – 221M	220.00	1	0.940	0.33
GSD75C – 271M	270.00	1	1.250	0.31
GSD75C – 331M	330.00	1	1.400	0.27
GSD75C – 391M	390.00	1	1.520	0.27
GSD75C – 471M	470.00	1	1.700	0.25
GSD75C – 561M	560.00	1	2.390	0.22
GSD75C – 681M	680.00	1	2.500	0.20
GSD75C – 821M	820.00	1	3.000	0.18
GSD75C – 102M	1000.00	1	4.100	0.17

※Test Freq. : 1KHz / 0.25V.

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

※Inductance drop=10% typ. at IDC.

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