

Fixed Inductors (Axial Lead Type) GSAL

Features (特長)

Coating epoxy resin that ensures the humidity resistance to be long life.

(樹脂塗裝可耐環境乾燥及長壽命)

Low Cost. (低成本)

Applications (用途)

Electronics products (電子產品)

Communication equipment (通訊器材)

Computer Devices (電腦週邊設備)

TV, VCR (電視、攝影機)



Product Identification (產品)

GSAL _ _ _ _ G - _ _ _ (Ex.GSALNR0204G-R10M)

I



1 2 3 4 5 6 7

1. Fixed Inductors (Axial Lead Type) (色碼電感) (GSAL)

2. Form (型式)

N → Normal Form (一般長帶)

S → Short Form (短帶)

F → F Forming (F 型)

U → U Forming (U 型)

P → Pana Forming without coating of lead wire (Pana 彎型 漆)

PC → Pana Forming with coating of lead wire (Pana 彎型塗腳漆)

3. Packing (包裝)

B → In Bulk (散裝)

A → Tapping with Ammo Box (盒裝)

R → Tapping with Reel (捲裝)

4. Size (尺寸) (0204,0307,0410,0510)

5. 表示無鉛

6. Inductance (電感值)

7. Tolerance (誤差值) (J 5%, K 10%, M 20%)

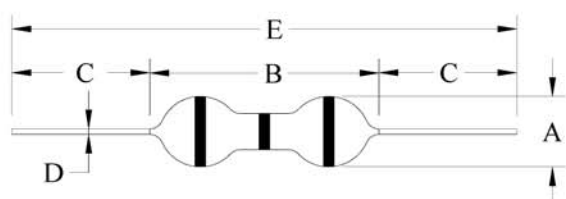
Fixed Inductors (Axial Lead Type) GSAL

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

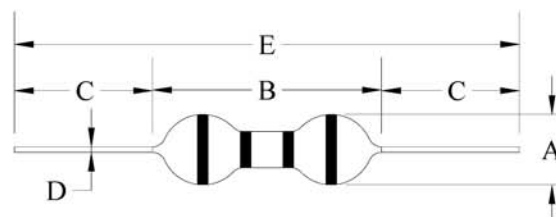
Form (型式)

(1) Normal Form & Short Form (一般型: 長帶 & 短帶)

GSAL0204G



GSAL0307G,GSAL0410G,GSAL0510G

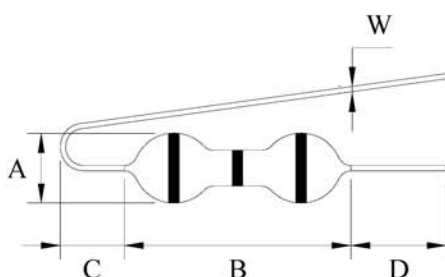


Unit in mm

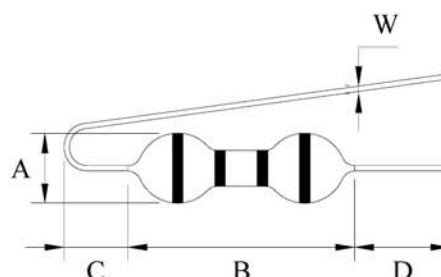
Type (型式)	ØA (max)	B (max)	C ± 3.0	Ø D ± 0.05	E ±1.5
GSALN0204G	2.8	5.0	29.5	0.50	62.5
GSALS0204G	2.8	5.0	16.0	0.50	36.5
GSALN0307G	3.0	7.0	28.0	0.50	62.5
GSALS0307G	3.0	7.0	15.0	0.50	36.5
GSALN0410G	4.0	10.0	26.0	0.65	62.5
GSALS0410G	4.0	10.0	14.0	0.65	36.5
GSALN0510G	5.0	10.0	26.0	0.65	62.5
GSALS0510G	5.0	10.0	14.0	0.65	36.5

(2) F Forming (F 彎型)

GSALFB0204G



GSALFB0307G,GSALFB0410G
GSALFB0510G



Unit in mm

Sym.	GSAL0204G	GSAL0307G	GSAL0410G	GSAL0510G
A (max)	2.80	3.00	4.00	5.00
B (max)	5.00	7.00	10.00	10.00
C (max)	6.00	6.00	6.00	6.00
D (min)	3.60	3.60	4.00	4.00
W ±0.05	0.50Ø	0.50Ø	0.65Ø	0.65Ø

Fixed Inductors (Axial Lead Type)

GSAL0307G

Electrical Characteristics for GSAL0307G Series [GSAL0307G 系列電子特性規格]

Part Number 產 品 料 號	Inductance (μ H) 電感值(L)	Q (min) 品質因數	Freq. (MHz) 測試頻率	SRF(MHz) (min) 共振頻率	DCR(Ω) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSAL□□0307G-R10M	0.10	40	25.2	480	0.060	1400
GSAL□□0307G-R12M	0.12	40	25.2	450	0.060	1350
GSAL□□0307G-R15M	0.15	40	25.2	420	0.070	1270
GSAL□□0307G-R18M	0.18	40	25.2	400	0.070	1200
GSAL□□0307G-R22M	0.22	40	25.2	380	0.080	1150
GSAL□□0307G-R27M	0.27	40	25.2	360	0.085	1110
GSAL□□0307G-R33M	0.33	40	25.2	350	0.095	1110
GSAL□□0307G-R39M	0.39	40	25.2	320	0.100	1000
GSAL□□0307G-R47M	0.47	40	25.2	300	0.110	1000
GSAL□□0307G-R56M	0.56	40	25.2	280	0.120	950
GSAL□□0307G-R68M	0.68	40	25.2	250	0.130	900
GSAL□□0307G-R82M	0.82	40	25.2	200	0.140	900
GSAL□□0307G-1R0K	1.00	40	25.2	180	0.150	815
GSAL□□0307G-1R2K	1.20	40	7.96	165	0.180	740
GSAL□□0307G-1R5K	1.50	40	7.96	150	0.200	700
GSAL□□0307G-1R8K	1.80	50	7.96	125	0.230	655
GSAL□□0307G-2R2K	2.20	50	7.96	110	0.250	630
GSAL□□0307G-2R7K	2.70	50	7.96	95	0.280	595
GSAL□□0307G-3R3K	3.30	50	7.96	70	0.300	575
GSAL□□0307G-3R9K	3.90	50	7.96	65	0.320	555
GSAL□□0307G-4R7K	4.70	50	7.96	50	0.350	530
GSAL□□0307G-5R6K	5.60	50	7.96	40	0.400	500
GSAL□□0307G-6R8K	6.80	50	7.96	30	0.450	470
GSAL□□0307G-8R2K	8.20	50	7.96	28	0.560	425
GSAL□□0307G-100K	10.00	50	7.96	22	0.750	370
GSAL□□0307G-120K	12.00	50	2.52	20	0.800	350
GSAL□□0307G-150K	15.00	50	2.52	16	0.930	335
GSAL□□0307G-180K	18.00	50	2.52	15	1.000	315
GSAL□□0307G-220K	22.00	50	2.52	13	1.200	285
GSAL□□0307G-270K	27.00	50	2.52	11	1.800	270
GSAL□□0307G-330K	33.00	50	2.52	10	2.100	255
GSAL□□0307G-390K	39.00	50	2.52	9.5	2.300	240
GSAL□□0307G-470K	47.00	50	2.52	8.5	2.600	205
GSAL□□0307G-560K	56.00	50	2.52	7.5	2.900	195
GSAL□□0307G-680K	68.00	50	2.52	6.5	3.300	185
GSAL□□0307G-820K	82.00	50	2.52	6.0	3.800	175
GSAL□□0307G-101K	100.00	50	2.52	5.5	4.200	165

Fixed Inductors (Axial Lead Type)

GSAL0307G

Electrical Characteristics for GSAL0307G Series〔GSAL0307G 系列電子特性規格〕

Part Number	Inductance (μ H)	Q (min)	Freq. (MHz)	SRF(MHz) (min)	DCR(Ω) (max)	IDC (mA) (max)
產 品 料 號	電感值(L)	品質因數	測試頻率	共振頻率	直流阻抗	定格電流
GSAL□□0307G-121K	120.00	60	0.796	5.4	4.700	160
GSAL□□0307G-151K	150.00	60	0.796	4.7	5.400	150
GSAL□□0307G-181K	180.00	60	0.796	4.3	6.000	140
GSAL□□0307G-221K	220.00	60	0.796	4.0	7.000	130
GSAL□□0307G-271K	270.00	60	0.796	3.7	7.700	120
GSAL□□0307G-331K	330.00	60	0.796	3.4	11.100	100
GSAL□□0307G-391K	390.00	60	0.796	2.8	12.600	95
GSAL□□0307G-471K	470.00	60	0.796	2.5	14.000	90
GSAL□□0307G-561K	560.00	60	0.796	2.3	15.500	85
GSAL□□0307G-681K	680.00	60	0.796	2.0	25.300	75
GSAL□□0307G-821K	820.00	60	0.796	1.5	27.500	65
GSAL□□0307G-102K	1000.00	50	0.796	1.2	31.400	60

Fixed Inductors (Axial Lead Type)

GSAL0410G

Electrical Characteristics for GSAL0410G Series [GSAL0410G 系列電子特性規格]

Part Number	Inductance (μ H)	Q (min)	Freq. (MHz)	SRF(MHz)	DCR(Ω) (max)	IDC(mA) (max)
產 品 料 號	電感值(L)	品質因數	測試頻率	共振頻率	直流阻抗	定格電流
GSAL□□0410G-R10M	0.10	25	25.2	480	0.060	1700
GSAL□□0410G-R12M	0.12	25	25.2	450	0.060	1640
GSAL□□0410G-R15M	0.15	25	25.2	420	0.070	1560
GSAL□□0410G-R18M	0.18	25	25.2	400	0.070	1480
GSAL□□0410G-R22M	0.22	25	25.2	380	0.080	1400
GSAL□□0410G-R27M	0.27	25	25.2	340	0.090	1320
GSAL□□0410G-R33M	0.33	25	25.2	300	0.100	1280
GSAL□□0410G-R39M	0.39	25	25.2	280	0.120	1200
GSAL□□0410G-R47M	0.47	25	25.2	250	0.130	1150
GSAL□□0410G-R56M	0.56	25	25.2	230	0.140	1100
GSAL□□0410G-R68M	0.68	25	25.2	210	0.150	1030
GSAL□□0410G-R82M	0.82	45	25.2	172	0.160	980
GSAL□□0410G-1R0K	1.00	45	25.2	157	0.170	920
GSAL□□0410G-1R2K	1.20	50	7.96	144	0.180	880
GSAL□□0410G-1R5K	1.50	50	7.96	131	0.200	830
GSAL□□0410G-1R8K	1.80	55	7.96	121	0.220	790
GSAL□□0410G-2R2K	2.20	55	7.96	110	0.240	750
GSAL□□0410G-2R7K	2.70	60	7.96	100	0.250	720
GSAL□□0410G-3R3K	3.30	65	7.96	94	0.300	670
GSAL□□0410G-3R9K	3.90	65	7.96	86	0.350	640
GSAL□□0410G-4R7K	4.70	70	7.96	80	0.400	620
GSAL□□0410G-5R6K	5.60	70	7.96	74	0.450	590
GSAL□□0410G-6R8K	6.80	75	7.96	68	0.500	550
GSAL□□0410G-8R2K	8.20	80	7.96	53	0.600	530
GSAL□□0410G-100K	10.00	80	7.96	45	0.650	500
GSAL□□0410G-120K	12.00	75	2.52	34	0.700	480
GSAL□□0410G-150K	15.00	70	2.52	20	0.750	460
GSAL□□0410G-180K	18.00	65	2.52	14	0.800	430
GSAL□□0410G-220K	22.00	50	2.52	9.9	0.900	410
GSAL□□0410G-270K	27.00	55	2.52	7.6	1.000	390
GSAL□□0410G-330K	33.00	55	2.52	6.3	1.100	370
GSAL□□0410G-390K	39.00	50	2.52	6.3	1.200	350
GSAL□□0410G-470K	47.00	45	2.52	6.3	1.300	340
GSAL□□0410G-560K	56.00	40	2.52	6.2	1.500	320
GSAL□□0410G-680K	68.00	40	2.52	5.7	1.800	305
GSAL□□0410G-820K	82.00	35	2.52	5.3	2.000	290
GSAL□□0410G-101K	100.00	30	2.52	4.8	2.500	275

Fixed Inductors (Axial Lead Type)

GSAL0410G

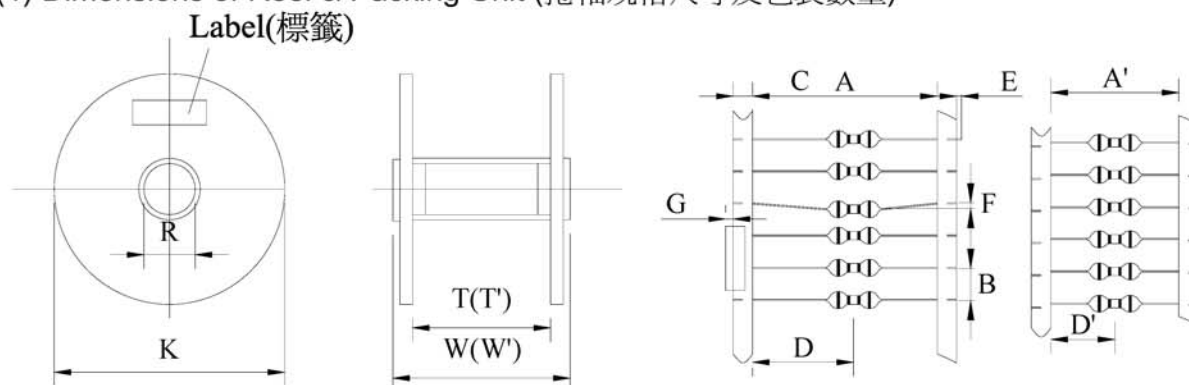
Electrical Characteristics for GSAL0410G Series〔GSAL0410G 系列電子特性規格〕

Part Number	Inductance (μ H)	Q (min)	Freq. (MHz)	SRF(MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
產 品 料 號	電感值(L)	品質因數	測試頻率	共振頻率	直流阻抗	定格電流
GSAL□□0410G-121K	120.00	70	0.796	3.8	3.000	185
GSAL□□0410G-151K	150.00	70	0.796	3.5	4.200	175
GSAL□□0410G-181K	180.00	70	0.796	3.3	4.600	165
GSAL□□0410G-221K	220.00	70	0.796	3.0	5.100	155
GSAL□□0410G-271K	270.00	65	0.796	2.8	6.000	145
GSAL□□0410G-331K	330.00	65	0.796	2.6	6.500	137
GSAL□□0410G-391K	390.00	65	0.796	2.4	7.500	133
GSAL□□0410G-471K	470.00	60	0.796	2.2	8.500	126
GSAL□□0410G-561K	560.00	60	0.796	2.1	9.500	120
GSAL□□0410G-681K	680.00	55	0.796	1.9	12.000	113
GSAL□□0410G-821K	820.00	55	0.796	1.8	14.000	105
GSAL□□0410G-102K	1000.00	50	0.796	1.4	20.000	85

Packaging Specifications for Fixed Inductors (Axial Lead Type)

Packaging Specification (包裝規格)

(1) Dimensions of Reel & Packing Unit (捲軸規格尺寸及包裝數量)



(A) Dimensions of Tape & Reel (打帶及捲軸規格尺寸)

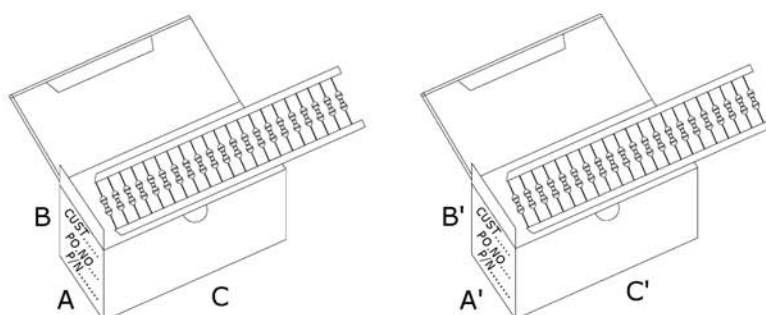
Unit In mm

Sym.	Dimensions	Sym.	Dimensions	Sym.	Dimensions
A	52.00 $\pm$ 1.50	E	0.00 $\pm$ 0.50	T'	45.00 $\pm$ 0.50
A'	26.00 $\pm$ 1.50	F	1.00 (max)	W	76.00 $\pm$ 0.50
B	5.00 $\pm$ 0.50	G	1.00 (max)	W'	50.00 $\pm$ 0.50
C	6.00 $\pm$ 1.00	K	355.00 $\pm$ 0.50		
D	26.00 $\pm$ 0.50	R	15.00 $\pm$ 0.50		
D'	13.00 $\pm$ 0.50	T	71.00 $\pm$ 0.50		

(B) Packing Unit for Reel (捲裝數量)

Item (項目)	GSAL0204G	GSAL0307G	GSAL0410G	GSAL0510G
Q' TY/ Reel (一捲數量)	5,000 PCS	5,000 PCS	5,000 PCS	3,000 PCS
GW/Reel (Approx.)(大約一捲總重)	1.4 Kgm	1.6 Kgm	2.0 Kgm	2.0 Kgm
Q' TY/CTN. (一箱數量)	25,000 PCS	25,000 PCS	25,000 PCS	15,000 PCS
NW/CTN. (Approx.)(大約一箱淨重)	7.0 Kgm	8.0 Kgm	10.0 Kgm	10.0 Kgm
GW/CTN.(Approx.)(大約一箱總重)	8.0 Kgm	9.0 Kgm	11.0 Kgm	11.0 Kgm
Carton Size (mm) (外箱尺寸)	397x397x479	397x397x479	397x397x479	397x397x479

(2) Dimensions of Box & Packing Unit (盒裝規格尺寸及包裝數量)



Packaging Specifications for Fixed Inductors (Axial Lead Type)

Packaging Specification (包裝規格)

(A) Dimensions Of Ammo Box(盒裝規格尺寸)

Unit In mm

Sym.	Dimensions	Sym.	Dimensions	Sym.	Dimensions
A	74.00 $\pm$ 0.30	B	108.00 $\pm$ 0.30	C	260.00 $\pm$ 0.30
A'	48.00 $\pm$ 0.30	B'	105.00 $\pm$ 0.30	C'	255.00 $\pm$ 0.30

(B) Packing Unit for Ammo Box (盒裝數量)

Item (項目)	GSAL0204G	GSAL0307G	GSAL0410G	GSAL0510G
Q' TY / Ammo Box (一盒數量)	3,000 PCS	3,000 PCS	2,000 PCS	1,500 PCS
GW / Box(Approx.) (大約一盒總重)	0.8 KGM	0.9 KGM	1.0 KGM	0.7 KGM
Q' TY / CTN. (一箱數量)	30,000 PCS	30,000 PCS	20,000 PCS	10,000 PCS
NW / CTN. (Approx.) (大約一箱淨重)	6.0 Kgm	7.0 Kgm	8.0 Kgm	5.0 Kgm
GW / CTN.(Approx.) (大約一箱總重)	8.0 Kgm	9.0 Kgm	10.0 Kgm	7.0 Kgm
Carton Size (mm) (外箱尺寸)	438x295x270	438x295x270	438x295x270	438x295x270

(3) Packing Unit for Bulk (散裝數量)

Item (項目)	GSAL0204G	GSAL0307G	GSAL0410G	GSAL0510G
Q' TY/ Bag (一包數量)	1,000 PCS	1,000 PCS	1,000 PCS	500 PCS
GW / Bag (Approx.) (大約一包總重)	0.1 Kgm	0.15 Kgm	0.3 Kgm	0.3 Kgm