

# SMD Wirewound Chip Molded-Type Inductors

## GSNL322522(1210) / GSNL453232(1812)

### GS565050V

#### Features (特長)

- High resistance to heat and humidity.  
(高抗熱及濕度)
- Resistant to mechanical shocks and pressures.  
(對於機械衝擊或壓力有良好之抵抗力)

#### Applications (用途)

- Communication Products (通訊類產品)
- Liquid crystal TV, Video camera  
(液晶電視、攝影機)



#### Product Identification (產品識別)

GSNL322522 -       (Ex. GSNL322522-1R0M)

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1. SMD Wirewound Chip Molded – Type Inductors (小型繞線壓模式晶片電感)  
(GSNL322522, GSNL453232, GS565050V)
2. Inductance (電感值)
3. Tolerance (誤差值) ( 參照表 J 5%, K 10%, M 20% )



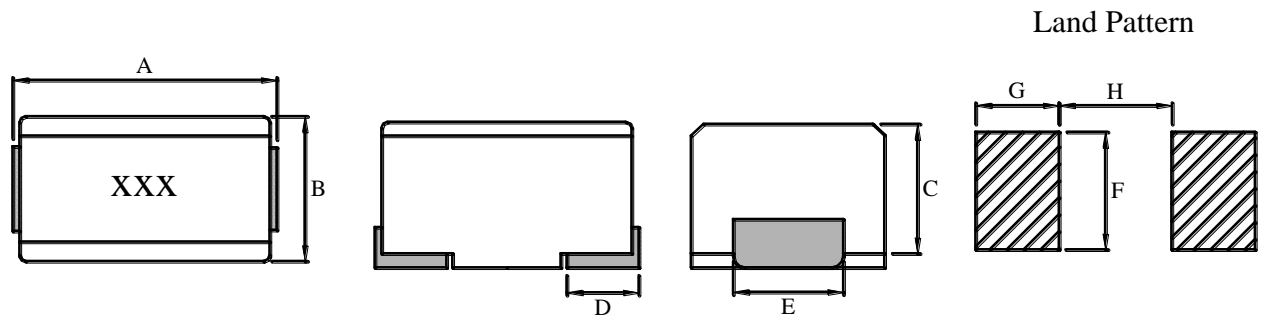
# SMD Wirewound Chip Molded-Type Inductors

## GSNL322522(1210) / GSNL453232(1812)

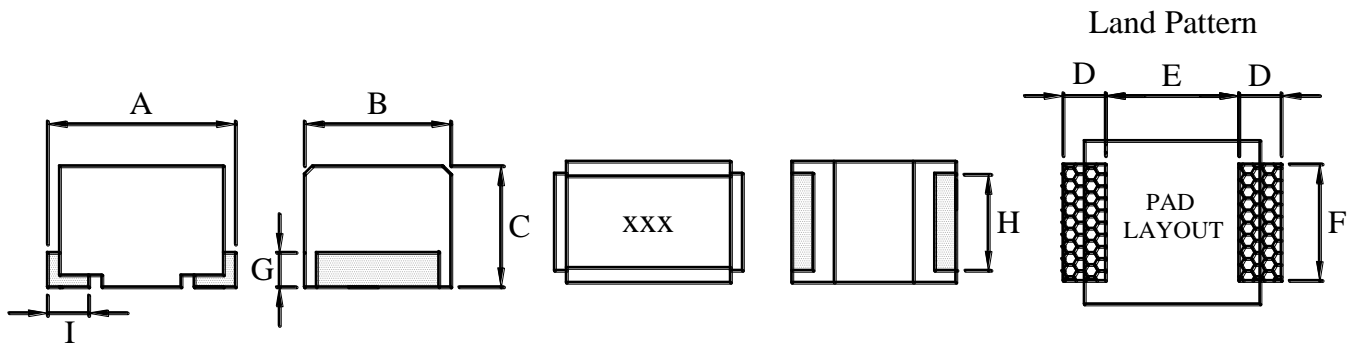
### GS565050V

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

GSNL322522 / GSNL453232



GS565050V



Unit In mm

Type (型式)	A	B	C	D	E	F	G	H	I
GSNL322522(1210)	3.2±0.3	2.5±0.2	2.2±0.2	0.5(Ref.)	1.9±0.1	2.0	1.2	2.0	-
GSNL453232(1812)	4.5±0.3	3.2±0.2	3.2±0.2	1.0(Ref.)	1.2(Ref.)	1.6	1.5	2.2	-
GS565050V	5.6±0.3	5.0±0.3	4.0±0.3	2.0	4.0	4.5	1.1	4.0±0.2	0.7±0.2

# SMD Wirewound Chip Molded-Type Inductors

## GSNL322522(1210)

Electrical Characteristics for GSNL322522 Series [GSNL322522 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ 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( $\Omega$ ) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSNL322522 – R10M	0.10	28	100	700	0.440	450
GSNL322522 – R12M	0.12	30	25.2	500	0.220	450
GSNL322522 – R15M	0.15	30	25.2	450	0.250	450
GSNL322522 – R18M	0.18	30	25.2	400	0.280	450
GSNL322522 – R22M	0.22	30	25.2	350	0.320	450
GSNL322522 – R27M	0.27	30	25.2	320	0.360	450
GSNL322522 – R33M	0.33	30	25.2	300	0.400	450
GSNL322522 – R39M	0.39	30	25.2	250	0.450	450
GSNL322522 – R47M	0.47	30	25.2	220	0.500	450
GSNL322522 – R56M	0.56	30	25.2	180	0.550	450
GSNL322522 – R68M	0.68	30	25.2	160	0.600	450
GSNL322522 – R82M	0.82	30	25.2	140	0.650	450
GSNL322522 – 1R0K	1.00	30	7.96	120	0.700	400
GSNL322522 – 1R2K	1.20	30	7.96	100	0.750	390
GSNL322522 – 1R5K	1.50	30	7.96	85	0.850	370
GSNL322522 – 1R8K	1.80	30	7.96	80	0.900	350
GSNL322522 – 2R2K	2.20	30	7.96	75	1.000	320
GSNL322522 – 2R7K	2.70	30	7.96	70	1.100	290
GSNL322522 – 3R3K	3.30	30	7.96	60	1.200	260
GSNL322522 – 3R9K	3.90	30	7.96	55	1.300	250
GSNL322522 – 4R7K	4.70	30	7.96	50	1.500	220
GSNL322522 – 5R6K	5.60	30	7.96	45	1.600	200
GSNL322522 – 6R8K	6.80	30	7.96	40	1.800	180
GSNL322522 – 8R2K	8.20	30	7.96	35	2.000	170
GSNL322522 – 100K	10.00	30	2.52	30	2.100	150
GSNL322522 – 120K	12.00	30	2.52	20	2.500	140
GSNL322522 – 150K	15.00	30	2.52	20	2.800	130
GSNL322522 – 180K	18.00	30	2.52	20	3.300	120
GSNL322522 – 220K	22.00	30	2.52	20	3.700	110
GSNL322522 – 270K	27.00	30	2.52	20	5.000	80
GSNL322522 – 330K	33.00	30	2.52	17	5.600	70
GSNL322522 – 390K	39.00	30	2.52	16	6.400	65
GSNL322522 – 470K	47.00	30	2.52	15	7.000	60
GSNL322522 – 560K	56.00	30	2.52	13	8.000	55
GSNL322522 – 680K	68.00	30	2.52	12	9.000	50
GSNL322522 – 820K	82.00	30	2.52	11	10.000	45
GSNL322522 – 101K	100.00	20	0.796	10	10.000	40

※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

# SMD Wirewound Chip Molded-Type Inductors

## GSNL453232(1812)

Electrical Characteristics for GSNL453232 Series [GSNL453232 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ 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( $\Omega$ ) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSNL453232 – R10M	0.10	35	25.2	300	0.180	800
GSNL453232 – R12M	0.12	35	25.2	280	0.200	770
GSNL453232 – R15M	0.15	35	25.2	250	0.220	730
GSNL453232 – R18M	0.18	35	25.2	220	0.240	700
GSNL453232 – R22M	0.22	40	25.2	200	0.250	665
GSNL453232 – R27M	0.27	40	25.2	180	0.260	635
GSNL453232 – R33M	0.33	40	25.2	165	0.280	605
GSNL453232 – R39M	0.39	40	25.2	150	0.300	575
GSNL453232 – R47M	0.47	40	25.2	145	0.320	545
GSNL453232 – R56M	0.56	40	25.2	140	0.360	520
GSNL453232 – R68M	0.68	40	25.2	135	0.400	500
GSNL453232 – R82M	0.82	40	25.2	130	0.450	475
GSNL453232 – 1R0K	1.00	50	7.96	100	0.500	450
GSNL453232 – 1R2K	1.20	50	7.96	80	0.550	430
GSNL453232 – 1R5K	1.50	50	7.96	70	0.600	410
GSNL453232 – 1R8K	1.80	50	7.96	60	0.650	390
GSNL453232 – 2R2K	2.20	50	7.96	55	0.700	380
GSNL453232 – 2R7K	2.70	50	7.96	50	0.750	370
GSNL453232 – 3R3K	3.30	50	7.96	45	0.800	355
GSNL453232 – 3R9K	3.90	50	7.96	40	0.900	330
GSNL453232 – 4R7K	4.70	50	7.96	35	1.000	315
GSNL453232 – 5R6K	5.60	50	7.96	33	1.100	300
GSNL453232 – 6R8K	6.80	50	7.96	27	1.200	285
GSNL453232 – 8R2K	8.20	50	7.96	25	1.400	270
GSNL453232 – 100K	10.00	50	2.52	20	1.600	250
GSNL453232 – 120K	12.00	50	2.52	18	2.000	225
GSNL453232 – 150K	15.00	50	2.52	17	2.500	200
GSNL453232 – 180K	18.00	50	2.52	15	2.800	190
GSNL453232 – 220K	22.00	50	2.52	13	3.200	180
GSNL453232 – 270K	27.00	50	2.52	12	3.600	170
GSNL453232 – 330K	33.00	50	2.52	11	4.000	160
GSNL453232 – 390K	39.00	50	2.52	10	4.500	150
GSNL453232 – 470K	47.00	50	2.52	10	5.000	140
GSNL453232 – 560K	56.00	50	2.52	9.0	5.500	135
GSNL453232 – 680K	68.00	50	2.52	9.0	6.000	130
GSNL453232 – 820K	82.00	50	2.52	8.0	7.000	120
GSNL453232 – 101K	100.00	40	0.796	8.0	8.000	110

# SMD Wirewound Chip Molded-Type Inductors

## GSNL453232(1812)

Electrical Characteristics for GSNL453232 Series [GSNL453232 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ 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( $\Omega$ ) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSNL453232 – 121K	120.00	40	0.796	6.0	8.000	110
GSNL453232 – 151K	150.00	40	0.796	5.0	9.000	105
GSNL453232 – 181K	180.00	40	0.796	5.0	9.500	102
GSNL453232 – 221K	220.00	40	0.796	4.0	10.000	100
GSNL453232 – 271K	270.00	40	0.796	4.0	12.000	92
GSNL453232 – 331K	330.00	40	0.796	3.5	14.000	85
GSNL453232 – 391K	390.00	40	0.796	3.0	18.000	80
GSNL453232 – 471K	470.00	40	0.796	3.0	26.000	62
GSNL453232 – 561K	560.00	30	0.796	3.0	30.000	50
GSNL453232 – 681K	680.00	30	0.796	3.0	30.000	50
GSNL453232 – 821K	820.00	30	0.796	2.5	35.000	30
GSNL453232 – 102K	1000.00	20	0.252	2.5	40.000	30

※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

# SMD Wirewound Chip Molded-Type Inductors

## GS565050V

Electrical Characteristics for GS565050V Series [GS565050V 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ 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( $\Omega$ ) (max) 直流阻抗	IDC(mA) (max) 定格電流
GS565050V – 1R0K	1.00	10	7.96	95	0.030	1800
GS565050V – 1R2K	1.20	10	7.96	70	0.035	1700
GS565050V – 1R5K	1.50	10	7.96	55	0.04	1600
GS565050V – 1R8K	1.80	10	7.96	47	0.05	1400
GS565050V – 2R2K	2.20	10	7.96	42	0.06	1300
GS565050V – 2R7K	2.70	10	7.96	37	0.07	1200
GS565050V – 3R3K	3.30	10	7.96	34	0.08	1120
GS565050V – 3R9K	3.90	10	7.96	32	0.09	1050
GS565050V – 4R7K	4.70	10	7.96	29	0.11	950
GS565050V – 5R6K	5.60	10	7.96	26	0.13	880
GS565050V – 6R8K	6.80	10	7.96	24	0.15	810
GS565050V – 8R2K	8.20	10	7.96	22	0.18	750
GS565050V – 100K	10.00	10	2.52	19	0.21	690
GS565050V – 120K	12.00	10	2.52	17	0.25	630
GS565050V – 150K	15.00	10	2.52	16	0.30	580
GS565050V – 180K	18.00	10	2.52	14	0.36	530
GS565050V – 220K	22.00	10	2.52	13	0.43	480
GS565050V – 270K	27.00	10	2.52	11.5	0.52	440
GS565050V – 330K	33.00	10	2.52	10.5	0.62	400
GS565050V – 390K	39.00	10	2.52	9.5	0.72	370
GS565050V – 470K	47.00	10	2.52	8.5	0.85	340
GS565050V – 560K	56.00	10	2.52	7.8	1.0	310
GS565050V – 680K	68.00	10	2.52	7.0	1.2	290
GS565050V – 820K	82.00	10	2.52	6.4	1.4	270
GS565050V – 101K	100.00	20	0.796	6.0	1.6	250
GS565050V – 121K	120.00	20	0.796	5.4	1.9	230
GS565050V – 151K	150.00	20	0.796	4.8	2.2	210
GS565050V – 181K	180.00	20	0.796	4.4	2.8	190
GS565050V – 221K	220.00	20	0.796	3.9	3.4	170
GS565050V – 271K	270.00	20	0.796	3.6	4.2	155
GS565050V – 331K	330.00	20	0.796	3.2	4.9	140
GS565050V – 391K	390.00	20	0.796	2.9	5.8	130
GS565050V – 471K	470.00	20	0.796	2.6	7.0	120
GS565050V – 561K	560.00	20	0.796	2.4	8.5	110
GS565050V – 681K	680.00	20	0.796	2.2	10	100
GS565050V – 821K	820.00	20	0.796	2.0	13	90
GS565050V – 102K	1000.00	20	0.252	1.8	15	85

# SMD Wirewound Chip Molded-Type Inductors GS565050V

Electrical Characteristics for GS565050V Series [GS565050V 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ 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( $\Omega$ ) (max) 直流阻抗	IDC(mA) (max) 定格電流
GS565050V – 122J	1200.00	20	0.252	1.5	17	75
GS565050V – 152J	1500.00	20	0.252	1.4	20	70
GS565050V – 182J	1800.00	20	0.252	1.3	30	60
GS565050V – 222J	2200.00	20	0.252	1.2	35	55
GS565050V – 272J	2700.00	20	0.252	1.1	55	45
GS565050V – 332J	3300.00	20	0.252	1.0	60	40
GS565050V – 392J	3900.00	20	0.252	1.0	70	38
GS565050V – 472J	4700.00	20	0.252	0.9	78	36
GS565050V – 562J	5600.00	20	0.252	0.8	85	33
GS565050V – 682J	6800.00	20	0.252	0.7	110	30
GS565050V – 822J	8200.00	20	0.252	0.6	125	28
GS565050V – 103J	10000.00	15	0.0796	0.5	150	25

※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