

Multilayer Chip Inductors

GSMI160808(0603) / GSMI201209(0805)

GSMI201212(0805) / GSMI321611(1206)

GSPCLS2012 / GSPCLS2016 / GSPCLS2520

Features (特長)

- To prevent EMI interference noises between electronic circuits.
(可降低噪音及濾波電磁干擾)
- High Q and high reliability and ferrite material. (高品質因素、高可靠性、鐵氧磁體材質)

Application (用途)

- Notebook Computer, Disc Drive Unit(CD/DVD), Inkjet Printer, Hard Disk Drive, Copying Machine, Display Monitor, Gaming Machine, Color TV, Video Tape Recorder, DVD Player, Video Camera, Digital Still Camera, Car Electronics, Lowest EMI.
(筆記型電腦、磁片驅動裝置、噴墨印表機、硬碟磁碟機、影印機、顯示監視器、遊戲機、彩色電視、錄放影機、光碟機、攝影機、數位相機、汽車電子產品、防干擾對策)



Product Identification (產品識別)

GSMI160808 - _____ (Ex. GSMI160808-47NM)

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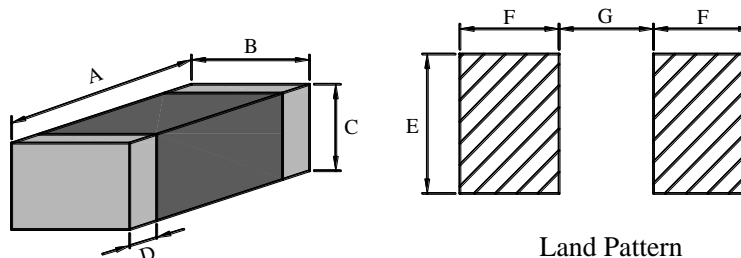
1. Multilayer Chip Inductors (積層式晶片電感)

(GSMI160808, GSMI201209, GSMI201212, GSMI321611, GSPCLS2012, GSPCLS2016, GSPCLS2520)

2. Inductance (電感值)

3. Tolerance (誤差值) (參照表 S 0.3nH, J 5%, K 10%, M 20%)

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



Unit In mm

Type (型式)	A	B	C	D	E	F	G
GSMI160808 (0603)	1.6 ± 0.2	0.8 ± 0.2	0.8 ± 0.2	0.2~0.6	1.0	0.7	0.7
GSMI201209 (0805)	2.0 ± 0.2	1.25 ± 0.2	0.85 ± 0.2	0.2~0.8	1.4	0.8	1.0
GSMI201212 (0805)	2.0 ± 0.2	1.25 ± 0.2	1.25 ± 0.2	0.2~0.8	1.4	0.8	1.0
GSMI321611 (1206)	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.4~1.0	1.4	1.1	2.2
GSPCLS2012	2.0 ± 0.2	1.25 ± 0.2	0.9 ± 0.1	0.3~0.7	1.4	1.0	1.0
GSPCLS2016	2.0 ± 0.15	1.6 ± 0.2	0.9 ± 0.1	0.3~0.7	1.8	1.0	1.0
GSPCLS2520	2.5 ± 0.2	2.0 ± 0.2	0.9 ± 0.1	0.4~0.8	2.3	1.0	1.2

Multilayer Chip Inductors

GSMI160808(0603)

Electrical Characteristics for GSMI160808 Series [GSMI160808 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
GSMI160808 – R10K	0.10	15	25	240	0.50	50
GSMI160808 – R12K	0.12	15	25	205	0.50	50
GSMI160808 – R15K	0.15	15	25	180	0.60	50
GSMI160808 – R18K	0.18	15	25	165	0.60	50
GSMI160808 – R22K	0.22	15	25	150	0.80	50
GSMI160808 – R27K	0.27	15	25	136	0.80	50
GSMI160808 – R33K	0.33	15	25	125	0.85	35
GSMI160808 – R39K	0.39	15	25	110	1.00	35
GSMI160808 – R47K	0.47	15	25	105	1.35	35
GSMI160808 – R56K	0.56	15	25	95	1.55	35
GSMI160808 – R68K	0.68	15	25	90	1.70	35
GSMI160808 – R82K	0.82	15	25	85	2.10	35
GSMI160808 – 1R0K	1.00	35	10	75	0.60	25
GSMI160808 – 1R2K	1.20	35	10	65	0.80	25
GSMI160808 – 1R5K	1.50	35	10	60	0.80	25
GSMI160808 – 1R8K	1.80	35	10	55	0.95	25
GSMI160808 – 2R2K	2.20	35	10	50	1.15	15
GSMI160808 – 2R7K	2.70	35	10	45	1.35	15
GSMI160808 – 3R3K	3.30	35	10	40	1.55	15
GSMI160808 – 3R9K	3.90	35	10	35	1.70	15
GSMI160808 – 4R7K	4.70	35	10	33	2.10	15
GSMI160808 – 5R6K	5.60	35	4	22	1.55	5
GSMI160808 – 6R8K	6.80	35	4	20	1.70	5
GSMI160808 – 8R2K	8.20	35	4	18	2.10	5
GSMI160808 – 100K	10.00	30	2	17	1.85	3
GSMI160808 – 120K	12.00	30	2	15	2.10	3

Multilayer Chip Inductors

GSMI201209(0805) / GSMI201212(0805)

Electrical Characteristics for GSMI201209/12 Series [GSMI201209/12 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
GSMI201209 – R10K	0.10	20	25	235	0.30	250
GSMI201209 – R12K	0.12	20	25	220	0.30	250
GSMI201209 – R15K	0.15	20	25	200	0.40	250
GSMI201209 – R18K	0.18	20	25	185	0.40	250
GSMI201209 – R22K	0.22	20	25	170	0.50	250
GSMI201209 – R27K	0.27	20	25	150	0.50	250
GSMI201209 – R33K	0.33	20	25	145	0.55	250
GSMI201209 – R39K	0.39	25	25	135	0.65	200
GSMI201209 – R47K	0.47	25	25	125	0.65	200
GSMI201209 – R56K	0.56	25	25	115	0.75	150
GSMI201209 – R68K	0.68	25	25	105	0.80	150
GSMI201209 – R82K	0.82	25	25	100	1.00	150
GSMI201209 – 1R0K	1.00	45	10	75	0.40	50
GSMI201209 – 1R2K	1.20	45	10	65	0.50	50
GSMI201209 – 1R5K	1.50	45	10	60	0.50	50
GSMI201209 – 1R8K	1.80	45	10	55	0.60	50
GSMI201209 – 2R2K	2.20	45	10	50	0.65	30
GSMI201212 – 2R7K	2.70	45	10	45	0.75	30
GSMI201212 – 3R3K	3.30	45	10	41	0.80	30
GSMI201212 – 3R9K	3.90	45	10	38	0.90	30
GSMI201212 – 4R7K	4.70	45	10	35	1.00	30
GSMI201212 – 5R6K	5.60	50	4	32	0.90	15
GSMI201212 – 6R8K	6.80	50	4	29	1.00	15
GSMI201212 – 8R2K	8.20	50	4	26	1.10	15
GSMI201212 – 100K	10.00	50	2	24	1.15	15
GSMI201212 – 120K	12.00	50	2	22	1.25	15
GSMI201212 – 150K	15.00	30	1	19	0.80	5
GSMI201212 – 180K	18.00	30	1	18	0.90	5
GSMI201212 – 220K	22.00	30	1	16	1.10	5
GSMI201212 – 270K	27.00	30	1	14	1.15	5
GSMI201212 – 330K	33.00	30	0.4	13	1.25	5

Multilayer Chip Inductors

GSMI321611(1206)

Electrical Characteristics for GSMI321611 Series [GSMI321611 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
GSMI321611 – R10K	0.10	20	25	235	0.25	250
GSMI321611 – R12K	0.12	20	25	220	0.30	250
GSMI321611 – R15K	0.15	20	25	200	0.30	250
GSMI321611 – R18K	0.18	20	25	185	0.40	250
GSMI321611 – R22K	0.22	20	25	170	0.40	250
GSMI321611 – R27K	0.27	20	25	150	0.50	250
GSMI321611 – R33K	0.33	20	25	145	0.60	250
GSMI321611 – R39K	0.39	25	25	135	0.50	250
GSMI321611 – R47K	0.47	25	25	125	0.60	200
GSMI321611 – R56K	0.56	25	25	115	0.70	200
GSMI321611 – R68K	0.68	25	25	105	0.80	150
GSMI321611 – R82K	0.82	25	25	100	0.90	150
GSMI321611 – 1R0K	1.00	45	10	75	0.40	100
GSMI321611 – 1R2K	1.20	45	10	65	0.50	100
GSMI321611 – 1R5K	1.50	45	10	60	0.50	50
GSMI321611 – 1R8K	1.80	45	10	55	0.50	50
GSMI321611 – 2R2K	2.20	45	10	50	0.60	50
GSMI321611 – 2R7K	2.70	45	10	45	0.60	50
GSMI321611 – 3R3K	3.30	45	10	41	0.70	50
GSMI321611 – 3R9K	3.90	45	10	38	0.80	50
GSMI321611 – 4R7K	4.70	45	10	35	0.90	50
GSMI321611 – 5R6K	5.60	50	4	32	0.70	25
GSMI321611 – 6R8K	6.80	50	4	29	0.80	25
GSMI321611 – 8R2K	8.20	50	4	26	0.90	25
GSMI321611 – 100K	10.00	50	2	24	1.00	25
GSMI321611 – 120K	12.00	50	2	22	1.05	15
GSMI321611 – 150K	15.00	35	1	19	0.70	5
GSMI321611 – 180K	18.00	35	1	18	0.70	5
GSMI321611 – 220K	22.00	35	1	16	0.90	5
GSMI321611 – 270K	27.00	35	1	14	0.90	5
GSMI321611 – 330K	33.00	35	1	13	1.05	5

Multilayer Chip Inductors

GSPCLS2012/ GSPCLS2016/ GSPCLS2520

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

Part Number 產品料號	Inductance (μ H) 電感值(L)	Freq. (MHz) 測試頻率	SRF(MHz) (min) 共振頻率	DCR (Ω) 直流阻抗	IDC(mA) (max) 定格電流
GSPCLS2012-R47M	0.47	1	100	0.10+/-25%	1100
GSPCLS2012-R68M	0.68	1	100	0.12+/-25%	1000
GSPCLS2012-R82M	0.82	1	90	0.14+/-25%	900
GSPCLS2012-1R0M	1.00	1	90	0.16+/-25%	800
GSPCLS2012-1R2M	1.20	1	80	0.16+/-25%	800
GSPCLS2012-1R5M	1.50	1	70	0.22+/-25%	700
GSPCLS2012-1R8M	1.80	1	60	0.22+/-25%	700
GSPCLS2012-2R2M	2.20	1	50	0.25+/-25%	600
GSPCLS2012-3R3M	3.30	1	40	0.22+/-25%	500
GSPCLS2012-4R7M	4.70	1	30	0.30+/-25%	500
GSPCLS2016-R47M	0.47	1	100	0.14+/-25%	1500
GSPCLS2016-R68M	0.68	1	90	0.15+/-30%	1500
GSPCLS2016-R82M	0.82	1	80	0.16+/-30%	1500
GSPCLS2016-1R0M	1.00	1	60	0.16+/-30%	1400
GSPCLS2016-1R2M	1.20	1	60	0.16+/-30%	1400
GSPCLS2016-1R5M	1.50	1	50	0.20+/-30%	1200
GSPCLS2016-1R8M	1.80	1	50	0.20+/-30%	1200
GSPCLS2016-2R2M	2.20	1	40	0.22+/-30%	1200
GSPCLS2016-3R3M	3.30	1	30	0.24+/-30%	1100
GSPCLS2016-3R9M	3.90	1	30	0.28+/-30%	1100
GSPCLS2016-4R7M	4.70	1	20	0.30+/-30%	1100
GSPCLS2520-R47M	0.47	1	100	0.07+/-25%	1800
GSPCLS2520-R68M	0.68	1	90	0.09+/-25%	1700
GSPCLS2520-R82M	0.82	1	80	0.10+/-25%	1700
GSPCLS2520-1R0M	1.00	1	60	0.11+/-25%	1600
GSPCLS2520-1R2M	1.20	1	60	0.11+/-25%	1600
GSPCLS2520-1R5M	1.50	1	50	0.13+/-25%	1500
GSPCLS2520-1R8M	1.80	1	50	0.13+/-25%	1500
GSPCLS2520-2R2M	2.20	1	40	0.17+/-25%	1300
GSPCLS2520-3R3M	3.30	1	30	0.16+/-25%	1200
GSPCLS2520-4R7M	4.70	1	25	0.20+/-25%	1100
GSPCLS2520-6R8M	6.80	1	25	0.20+/-30%	1200