

Multilayer Chip Inductors for High Frequency GSMF100505(0402) / GSMF160808(0603) GSMF201209(0805) / GSMF201212(0805)

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 ceramic material. (高品質因素、高可靠性、陶瓷材質)

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)



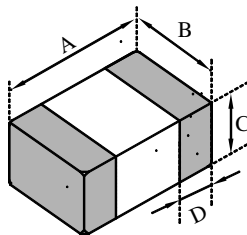
Product Identification (產品識別)

GSMF100505 - _____ (Ex. GSMF100505-1N0S)

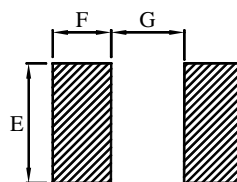
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1. Multilayer Chip Inductors for High Frequency (高頻積層式晶片電感)
(GSMF100505, GSMF160808, GSMF201209, GSMF201212)
2. Inductance (電感值)
3. Tolerance (誤差值) (參照表 S 0.3nH, J 5%, K 10%, M 20%)

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



Land Pattern



Unit In mm

Type (型式)	A	B	C	D	E	F	G
GSMF100505 (0402)	1.0±0.1	0.5±0.1	0.5±0.1	0.1~0.3	0.5	0.45	0.5
GSMF160808 (0603)	1.6±0.2	0.8±0.2	0.8±0.2	0.2~0.6	0.7	0.70	0.7
GSMF201209 (0805)	2.0±0.2	1.25±0.2	0.85±0.2	0.2~0.8	1.0	0.80	1.0
GSMF201212 (0805)	2.0±0.2	1.25±0.2	1.25±0.2	0.2~0.8	1.0	0.80	1.0

Multilayer Chip Inductors for High Frequency GSMF100505(0402)

Electrical Characteristics for GSMF100505(0402) Series [GSMF100505(0402)電子特性規格]

Part Number 產品料號	Inductance (nH) 電感值(L)	Q (min) 品質因數	Freq. (MHz) 測試頻率	SRF(GHz) (min) 共振頻率	DCR(Ω) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSMF100505-1N0S	1.00	8	100	10.00	0.08	300
GSMF100505-1N2S	1.20	8	100	10.00	0.09	300
GSMF100505-1N5S	1.50	8	100	6.00	0.10	300
GSMF100505-1N8S	1.80	8	100	6.00	0.12	300
GSMF100505-2N0S	2.00	8	100	6.00	0.12	300
GSMF100505-2N2S	2.20	8	100	6.00	0.13	300
GSMF100505-2N4S	2.40	8	100	6.00	0.13	300
GSMF100505-2N7S	2.70	8	100	6.00	0.13	300
GSMF100505-3N0S	3.00	8	100	6.00	0.16	300
GSMF100505-3N3S	3.30	8	100	6.00	0.16	300
GSMF100505-3N9S	3.90	8	100	4.00	0.21	300
GSMF100505-4N7S	4.70	8	100	4.00	0.21	300
GSMF100505-5N6S	5.60	8	100	4.00	0.23	300
GSMF100505-6N8J	6.80	8	100	3.90	0.25	300
GSMF100505-8N2J	8.20	8	100	3.60	0.28	300
GSMF100505-10NJ	10.00	8	100	3.20	0.31	300
GSMF100505-12NJ	12.00	8	100	2.70	0.40	300
GSMF100505-15NJ	15.00	8	100	2.30	0.46	300
GSMF100505-18NJ	18.00	8	100	2.10	0.55	300
GSMF100505-22NJ	22.00	8	100	1.90	0.60	300
GSMF100505-27NJ	27.00	8	100	1.60	0.70	300
GSMF100505-33NJ	33.00	8	100	1.30	0.80	200
GSMF100505-39NJ	39.00	8	100	1.20	0.90	200
GSMF100505-47NJ	47.00	8	100	1.00	1.00	200
GSMF100505-56NJ	56.00	8	100	0.75	1.00	200
GSMF100505-68NJ	68.00	8	100	0.75	1.20	180
GSMF100505-82NJ	82.00	8	100	0.60	1.30	150
GSMF100505-R10J	100.00	8	100	0.60	1.50	150
GSMF100505-R12J	120.00	8	100	0.60	1.60	150

Multilayer Chip Inductors for High Frequency

GSMF160808(0603)

Electrical Characteristics for GSMF160808(0603) Series [GSMF160808(0603) 電子特性規格]

Part Number 產品料號	Inductance (nH) 電感值(L)	Q (min) 品質因數	Freq. (MHz) 測試頻率	SRF(GHz) (min) 共振頻率	DCR(Ω) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSMF160808-1N0S	1.00	8	100	10.00	0.05	300
GSMF160808-1N2S	1.20	8	100	10.00	0.05	300
GSMF160808-1N5S	1.50	8	100	6.00	0.10	300
GSMF160808-1N8S	1.80	8	100	6.00	0.10	300
GSMF160808-2N2S	2.20	8	100	6.00	0.10	300
GSMF160808-2N7S	2.70	10	100	6.00	0.10	300
GSMF160808-3N3S	3.30	10	100	6.00	0.12	300
GSMF160808-3N9S	3.90	10	100	6.00	0.14	300
GSMF160808-4N7S	4.70	10	100	4.00	0.16	300
GSMF160808-5N6S	5.60	10	100	4.00	0.18	300
GSMF160808-6N8J	6.80	10	100	4.00	0.22	300
GSMF160808-8N2J	8.20	10	100	3.50	0.24	300
GSMF160808-10NJ	10.00	12	100	3.40	0.26	300
GSMF160808-12NJ	12.00	12	100	2.60	0.28	300
GSMF160808-15NJ	15.00	12	100	2.30	0.32	300
GSMF160808-18NJ	18.00	12	100	2.00	0.35	300
GSMF160808-22NJ	22.00	12	100	1.60	0.40	300
GSMF160808-27NJ	27.00	12	100	1.40	0.45	300
GSMF160808-33NJ	33.00	12	100	1.20	0.55	300
GSMF160808-39NJ	39.00	12	100	1.10	0.60	300
GSMF160808-47NJ	47.00	12	100	0.90	0.70	300
GSMF160808-56NJ	56.00	12	100	0.90	0.75	300
GSMF160808-68NJ	68.00	12	100	0.70	0.85	300
GSMF160808-82NJ	82.00	12	100	0.60	0.95	300
GSMF160808-R10J	100.00	12	100	0.60	1.00	300
GSMF160808-R12J	120.00	8	50	0.50	1.20	300
GSMF160808-R15J	150.00	8	50	0.50	1.20	300
GSMF160808-R18J	180.00	8	50	0.40	1.30	300
GSMF160808-R22J	220.00	8	50	0.40	1.50	300

Multilayer Chip Inductors for High Frequency

GSMF201209(0805) / GSMF201212(0805)

Electrical Characteristics for GSMF201209(0805) Series[GSMF201209(0805) 電子特性規格]

Part Number 產品料號	Inductance (nH) 電感值(L)	Q (min) 品質因數	Freq. (MHz) 測試頻率	SRF(GHz) (min) 共振頻率	DCR(Ω) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSMF201209-1N0S	1.00	10	100	10.00	0.10	300
GSMF201209-1N2S	1.20	10	100	10.00	0.10	300
GSMF201209-1N5S	1.50	10	100	4.00	0.10	300
GSMF201209-1N8S	1.80	10	100	4.00	0.10	300
GSMF201209-2N2S	2.20	10	100	4.00	0.10	300
GSMF201209-2N7S	2.70	12	100	4.00	0.10	300
GSMF201209-3N3S	3.30	12	100	4.00	0.13	300
GSMF201209-3N9S	3.90	12	100	4.00	0.15	300
GSMF201209-4N7S	4.70	12	100	3.50	0.20	300
GSMF201209-5N6S	5.60	15	100	3.20	0.23	300
GSMF201209-6N8J	6.80	15	100	2.80	0.25	300
GSMF201209-8N2J	8.20	15	100	2.40	0.28	300
GSMF201209-10NJ	10.00	15	100	2.10	0.30	300
GSMF201209-12NJ	12.00	15	100	1.90	0.35	300
GSMF201209-15NJ	15.00	15	100	1.60	0.40	300
GSMF201209-18NJ	18.00	15	100	1.50	0.45	300
GSMF201209-22NJ	22.00	18	100	1.40	0.50	300
GSMF201209-27NJ	27.00	18	100	1.30	0.55	300
GSMF201209-33NJ	33.00	18	100	1.20	0.60	300
GSMF201209-39NJ	39.00	18	100	1.00	0.65	300
GSMF201209-47NJ	47.00	18	100	0.90	0.70	300
GSMF201209-56NJ	56.00	18	100	0.80	0.75	300
GSMF201209-68NJ	68.00	18	100	0.70	0.80	300
GSMF201209-82NJ	82.00	18	100	0.60	0.90	300
GSMF201209-R10J	100.00	18	100	0.60	0.90	300
GSMF201209-R12J	120.00	13	50	0.50	0.95	300
GSMF201212-R15J	150.00	13	50	0.50	1.00	300
GSMF201212-R18J	180.00	13	50	0.40	1.10	300
GSMF201212-R22J	220.00	12	50	0.35	1.20	300
GSMF201212-R27J	270.00	12	50	0.30	1.30	300
GSMF201212-R33J	330.00	12	50	0.25	1.40	300
GSMF201212-R39J	390.00	10	50	0.25	1.40	300
GSMF201212-R47J	470.00	10	50	0.20	1.50	300
GSMF201212-R56J	560.00	10	25	0.18	5.00	50
GSMF201212-R68J	680.00	10	25	0.16	5.50	50