

# Multilayer Chip Inductors for High Frequency GSMF1005M8(0402) / GSMF1608M8(0603)

## 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)



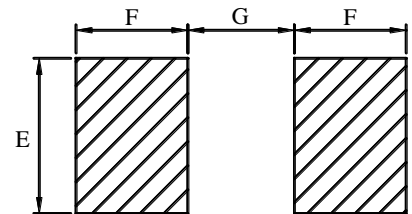
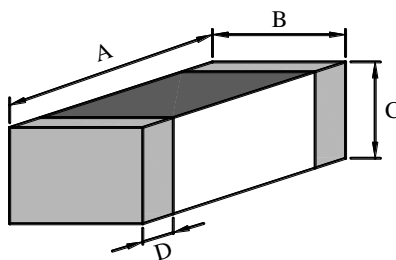
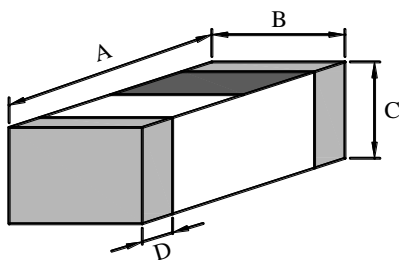
## Product Identification (產品識別)

**GSMF1005M8** - \_\_\_\_\_ (Ex. GSMF1005M8-1N0S)

1                      2                      3

1. Multilayer Chip Inductors for High Frequency (高頻積層式晶片電感)  
( GSMF1005M8, GSMF1608M8)
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
GSMF1005M8 (0402)	1.0±0.1	0.5±0.1	0.5±0.1	0.2±0.1	0.5	0.45	0.4
GSMF1608M8 (0603)	1.6±0.2	0.8±0.2	0.8±0.2	0.2~0.6	0.7	0.70	0.7

# Multilayer Chip Inductors for High Frequency GSMF1005M8(0402)

Electrical Characteristics for GSMF1005M8(0402) Series [GSMF1005M8(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) (Typ.) 共振頻率	DCR( $\Omega$ ) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSMF1005M8-1N0S	1.00	8	100	10.00	0.08	300
GSMF1005M8-1N1S	1.10	8	100	10.00	0.08	300
GSMF1005M8-1N2S	1.20	8	100	10.00	0.09	300
GSMF1005M8-1N3S	1.30	8	100	9.00	0.10	300
GSMF1005M8-1N5S	1.50	8	100	6.00	0.10	300
GSMF1005M8-1N8S	1.80	8	100	6.00	0.12	300
GSMF1005M8-2N0S	2.00	8	100	6.00	0.12	300
GSMF1005M8-2N2S	2.20	8	100	6.00	0.13	300
GSMF1005M8-2N4S	2.40	8	100	6.00	0.13	300
GSMF1005M8-2N7S	2.70	8	100	6.00	0.13	300
GSMF1005M8-3N0S	3.00	8	100	6.00	0.16	300
GSMF1005M8-3N3S	3.30	8	100	6.00	0.16	300
GSMF1005M8-3N9S	3.90	8	100	4.00	0.21	300
GSMF1005M8-4N7S	4.70	8	100	4.00	0.21	300
GSMF1005M8-5N0S	5.00	8	100	4.00	0.21	300
GSMF1005M8-5N6S	5.60	8	100	4.00	0.23	300
GSMF1005M8-6N0S	6.00	8	100	4.00	0.23	300
GSMF1005M8-6N8J	6.80	8	100	3.90	0.25	300
GSMF1005M8-8N2J	8.20	8	100	3.60	0.28	300
GSMF1005M8-9N1J	9.10	8	100	3.50	0.29	300
GSMF1005M8-10NJ	10.00	8	100	3.20	0.31	300
GSMF1005M8-12NJ	12.00	8	100	2.70	0.40	300
GSMF1005M8-15NJ	15.00	8	100	2.30	0.46	300
GSMF1005M8-18NJ	18.00	8	100	2.10	0.55	300
GSMF1005M8-22NJ	22.00	8	100	1.90	0.60	300

# Multilayer Chip Inductors for High Frequency GSMF1005M8(0402)

Electrical Characteristics for GSMF1005M8(0402) Series [GSMF1005M8(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) (Typ.) 共振頻率	DCR( $\Omega$ ) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSMF1005M8 -27NJ	27.00	8	100	1.60	0.70	300
GSMF1005M8 -33NJ	33.00	8	100	1.30	0.80	200
GSMF1005M8 -39NJ	39.00	8	100	1.20	0.90	200
GSMF1005M8 -47NJ	47.00	8	100	1.00	1.00	200
GSMF1005M8 -56NJ	56.00	8	100	0.75	1.00	200
GSMF1005M8 -68NJ	68.00	8	100	0.75	1.20	180
GSMF1005M8 -75NJ	75.00	8	100	0.70	1.25	150
GSMF1005M8 -82NJ	82.00	8	100	0.60	1.30	150
GSMF1005M8 -R10J	100.00	8	100	0.60	1.50	150
GSMF1005M8 -R12J	120.00	8	100	0.60	1.60	150

# Multilayer Chip Inductors for High Frequency

## GSMF1608M8(0603)

Electrical Characteristics for GSMF1608M8(0603) Series [GSMF1608M8(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( $\Omega$ ) (max) 直流阻抗	IDC(mA) (max) 定格電流
GSMF1608M8-1N0S	1.00	8	100	10.00	0.05	300
GSMF1608M8-1N2S	1.20	8	100	10.00	0.05	300
GSMF1608M8-1N5S	1.50	8	100	6.00	0.10	300
GSMF1608M8-1N8S	1.80	8	100	6.00	0.10	300
GSMF1608M8-2N2S	2.20	8	100	6.00	0.10	300
GSMF1608M8-2N7S	2.70	10	100	6.00	0.10	300
GSMF1608M8-3N3S	3.30	10	100	6.00	0.12	300
GSMF1608M8-3N9S	3.90	10	100	6.00	0.14	300
GSMF1608M8-4N7S	4.70	10	100	4.00	0.16	300
GSMF1608M8-5N6S	5.60	10	100	4.00	0.18	300
GSMF1608M8-6N8J	6.80	10	100	4.00	0.22	300
GSMF1608M8-8N2J	8.20	10	100	3.50	0.24	300
GSMF1608M8-10NJ	10.00	12	100	3.40	0.26	300
GSMF1608M8-12NJ	12.00	12	100	2.60	0.28	300
GSMF1608M8-15NJ	15.00	12	100	2.30	0.32	300
GSMF1608M8-18NJ	18.00	12	100	2.00	0.35	300
GSMF1608M8-22NJ	22.00	12	100	1.60	0.40	300
GSMF1608M8-27NJ	27.00	12	100	1.40	0.45	300
GSMF1608M8-33NJ	33.00	12	100	1.20	0.55	300
GSMF1608M8-39NJ	39.00	12	100	1.10	0.60	300
GSMF1608M8-47NJ	47.00	12	100	0.90	0.70	300
GSMF1608M8-56NJ	56.00	12	100	0.90	0.75	300
GSMF1608M8-68NJ	68.00	12	100	0.70	0.85	300
GSMF1608M8-82NJ	82.00	12	100	0.60	0.95	300
GSMF1608M8-R10J	100.00	12	100	0.60	1.00	300
GSMF1608M8-R12J	120.00	12	50	0.50	1.20	300