

SMD Flat Top Air Core Inductors

GSAM1812 / GSAM2215 / GSAM4015 / GSAM132

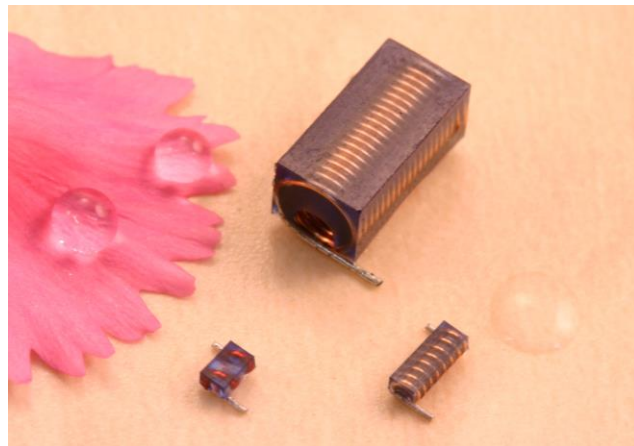
GSAM3730 / GSAM7030

Features (特長)

- High frequency (高頻)
- Highest possible SRF as well as excellent Q values (高共振頻率及高品質因數)
- The constitutive property is good and easy to operate (結構性佳、使用方便)

Applications (用途)

- Pager, Cordless phone & High Frequency Communication Products (呼叫器、行動電話及高頻通訊類產品)
- Intercom, CATV (對講機、CATV)



Product Identification (產品識別)

GSAM _____ - _____ (Ex. GSAM1812-22NK)

1 2 3 4

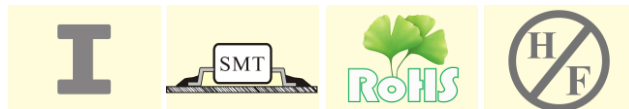
1. SMD Flat Top Air Core Inductors (平面灌膠式空芯線圈電感)

2. Size

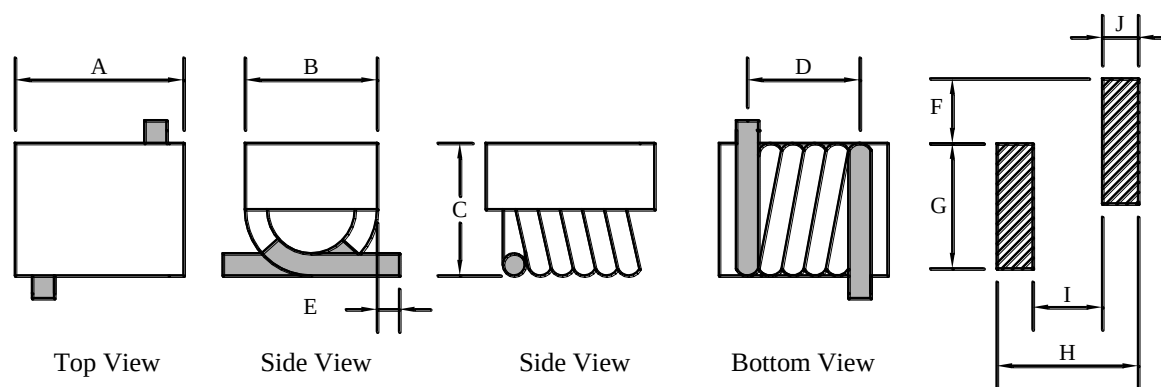
GSAM1812, GSAM2215, GSAM4015, GSAM132, GSAM3730, GSAM7030

3. Inductance (電感值)

4. Tolerance (誤差值) (參照表 J 5%, K 10%)



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



Unit In mm

Item (型式)	A	B	C	D	E	F	G	H	I	J
GSAM1812	4.70±0.3	3.70±0.2	3.50±0.3	4.30±0.4	1.00±0.3	2.7	5.2	5.8	2.9	1.5
GSAM2215	2.2±0.3	1.4±0.2	1.4±0.2	1.8±0.3	0.9±0.3	1.0	2.5	2.6	1.0	0.8
GSAM4015	4.0±0.3	1.5±0.2	1.5±0.2	3.5±0.3	0.9±0.3	1.0	2.5	4.5	2.9	0.8
GSAM132	9.0(max)	4.5±0.3	4.6±0.4	8.0±0.5	1.0±0.3	2.4	4.7	10.0	6.0	2.1
GSAM3730	3.30±0.3	2.50±0.2	2.60±0.2	2.90±0.3	0.70±0.2	2.8	3.3	4.2	1.7	1.3
GSAM7030	6.00±0.3	2.50±0.2	2.60±0.2	5.80±0.3	0.70±0.2	2.8	3.3	7.4	4.9	1.3

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GSAM1812

Electrical Characteristics for GSAM1812 Series [GSAM1812 系列電子特性規格]

Part Number 產 品 料 號	Inductance (L) (nH) 電感值	Test Freq. (MHz) 測試頻率	Q (min) 品質因數	SRF (min)GHZ 共振頻率	DCR. (MAX) 直流阻抗	IDC(A) (max) 定格電流
GSAM1812 - 22NK	22	150	100	3.2	4.8	3.2
GSAM1812 - 27NK	27	150	100	2.7	4.6	3.5
GSAM1812 - 33NK	33	150	100	2.5	5.9	3.0
GSAM1812 - 39NJ	39	150	100	2.1	5.6	2.8
GSAM1812 - 47NJ	47	150	100	2.1	6.9	2.9
GSAM1812 - 56NJ	56	150	100	1.5	6.4	2.9
GSAM1812 - 68NJ	68	150	100	1.5	8.1	2.9
GSAM1812 - 82NJ	82	150	100	1.3	8.9	2.6
GSAM1812 - R10J	100	150	100	1.2	10.0	2.5
GSAM1812 - R12J	100	150	100	1.1	11.1	2.2

GSAM2215

Electrical Characteristics for GSAM2215 Series [GSAM2215 系列電子特性規格]

Part Number 產 品 料 號	Turns 圈數	Inductance (L) (nH) 電感值	Q (min) 品質因數	Test Freq. (MHz) 測試頻率	SRF(GHz) (min) 共振頻率
GSAM2215 - 02	2	1.65 ±10%	100	800	>3.0
GSAM2215 - 03	3	2.55 ±10%	100	800	>3.0
GSAM2215 - 04	4	3.85 ±10%	100	800	>3.0
GSAM2215 - 05	5	5.45 ±5%	100	800	>3.0

GSAM4015

Electrical Characteristics for GSAM4015 Series [GSAM4015 系列電子特性規格]

Part Number 產 品 料 號	Turns 圈數	Inductance (L) (nH) 電感值	Q (min) 品質因數	Test Freq. (MHz) 測試頻率	SRF(GHz) (min) 共振頻率
GSAM4015 - 06	6	5.60 ±5%	100	800	>3.0
GSAM4015 - 07	7	7.15 ±5%	100	800	>3.0
GSAM4015 - 08	8	8.80 ±5%	100	800	>3.0
GSAM4015 - 09	9	9.85 ±5%	100	800	>3.0
GSAM4015 - 10	10	12.55 ±5%	100	800	>3.0

※Operating Temp. : -40℃ ~ +125℃

※Storage Temperature&Humidity : ≤ 40℃ & 70% RH maximum

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GSAM132

Electrical Characteristics for GSAM132 Series [GSAM132 系列電子特性規格]

Part Number 產 品 料 號	Turns 圈數	Inductance (L) (nH) 電感值	Q (min) 品質因數	Test Freq. (MHz) 測試頻率	SRF(GHz) (min) 共振頻率	DCR(mΩ) (max) 直流阻抗
GSAM132 – 09	9	90 ±5%	100	50	>1.0	14.0
GSAM132 – 10	10	111 ±5%	100	50	>1.0	9.5
GSAM132 – 11	11	130 ±5%	100	50	>0.9	10.8
GSAM132 – 12	12	169 ±5%	100	50	>0.8	12.0
GSAM132 – 13	13	206 ±5%	100	50	>0.7	10.5
GSAM132 – 14	14	222 ±5%	100	50	>0.6	14.0
GSAM132 – 15	15	246 ±5%	100	50	>0.6	17.0
GSAM132 – 16	16	307 ±5%	100	50	>0.5	22.0
GSAM132 – 17	17	380 ±5%	100	50	>0.5	25.5
GSAM132 – 18	18	422 ±5%	100	50	>0.4	39.0
GSAM132 – 19	19	491 ±5%	100	50	>0.4	40.0
GSAM132 – 20	20	538 ±5%	100	50	>0.4	42.0

GSAM3730

Electrical Characteristics for GSAM3730 Series [GSAM3730 系列電子特性規格]

Part Number 產 品 料 號	Turns 圈數	Inductance (L) (nH) 電感值	Q (min) 品質因數	Test Freq. (MHz) 測試頻率	SRF(GHz) (min) 共振頻率
GSAM3730 – A01T	1	2.5 ±10%	145	150	>3.0
GSAM3730 – A02T	2	5.0 ±10%	140	150	>3.0
GSAM3730 – A03T	3	8.0 ±10%	140	150	>3.0
GSAM3730 – A04T	4	12.5 ±5%	137	150	>3.0
GSAM3730 – A05T	5	18.5 ±5%	132	150	>2.5

GSAM7030

Electrical Characteristics for GSAM7030 Series [GSAM7030 系列電子特性規格]

Part Number 產 品 料 號	Turns 圈數	Inductance (L) (nH) 電感值	Q (min) 品質因數	Test Freq. (MHz) 測試頻率	SRF(GHz) (min) 共振頻率
GSAM7030 – B06T	6	17.5 ±5%	100	150	>2.2
GSAM7030 – B07T	7	22.0 ±5%	100	150	>2.0
GSAM7030 – B08T	8	28.0 ±5%	100	150	>1.8
GSAM7030 – B09T	9	35.5 ±5%	100	150	>1.2
GSAM7030 – B10T	10	43.5 ±5%	100	150	>1.0

※Operating Temp. : –40℃ ~ +125℃

※Storage Temperature&Humidity : ≤ 40℃ & 70% RH maximum