

# SMD Flat Top Air Core Inductors

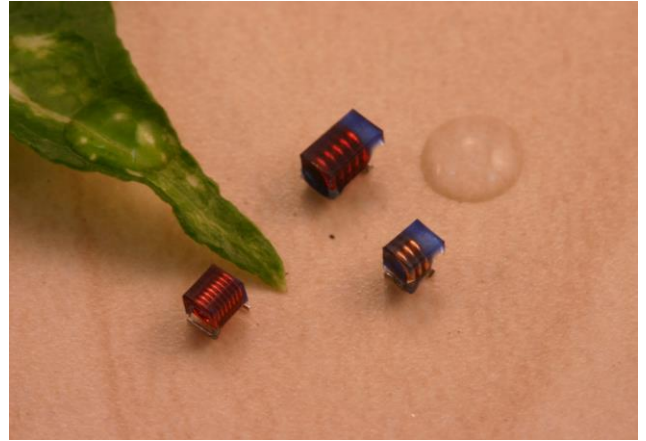
## GSAM0805 / GSAM1008

### 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素)
- The constitutive property is good and easy to operate (結構性佳、使用方便)

### Applications (用途)

- Pager, Cordless phone & High Freq. 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. GSAM0805-3N9K)  
 1            2            3            4



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

2. Size

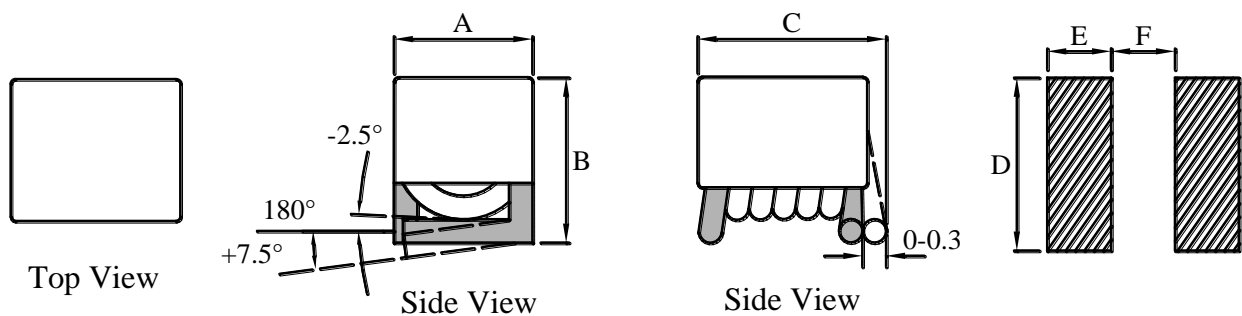
GSAM0805, GSAM1008

3. Inductance (電感值)

4. Tolerance (誤差值) ( 參照表 K 10%,M 20% )

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

### Land Pattern



Unit In mm

| Type ( 型式 ) | A (max) | B (max) | C (max) | D    | E    | F    |
|-------------|---------|---------|---------|------|------|------|
| GSAM0805    | 1.80    | 2.10    | 2.85    | 1.78 | 1.02 | 0.76 |
| GSAM1008    | 1.90    | 2.20    | 3.20    | 2.54 | 1.02 | 1.27 |

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## GSAM0805

Electrical Characteristics for GSAM0805 Series [GSAM0805 系列電子特性規格]

| Part Number<br>產品料號 | Inductance<br>(L) (nH)<br>電感值 | Q<br>(min)<br>品質因數 | Test Freq.<br>(MHz)<br>測試頻率 | SRF(MHz)<br>(min)<br>共振頻率 | DCR(mΩ)<br>(max)<br>直流阻抗 | IDC(mA)<br>(max)<br>定格電流 |
|---------------------|-------------------------------|--------------------|-----------------------------|---------------------------|--------------------------|--------------------------|
| GSAM0805 - 3N9K     | 3.9                           | 80                 | 300                         | >3000                     | 2.6                      | 1200                     |
| GSAM0805 - 4N7K     | 4.7                           | 80                 | 300                         | >3000                     | 3.6                      | 900                      |
| GSAM0805 - 5N6K     | 5.6                           | 80                 | 300                         | >3000                     | 3.7                      | 950                      |
| GSAM0805 - 6N8K     | 6.8                           | 80                 | 300                         | >3000                     | 4.5                      | 900                      |
| GSAM0805 - 8N2K     | 8.2                           | 80                 | 300                         | >3000                     | 5.3                      | 840                      |
| GSAM0805 - 10NK     | 10                            | 70                 | 300                         | >3000                     | 5.4                      | 900                      |
| GSAM0805 - 12NK     | 12                            | 70                 | 300                         | >3000                     | 6.3                      | 900                      |
| GSAM0805 - 15NK     | 15                            | 70                 | 300                         | 2500                      | 7.2                      | 900                      |
| GSAM0805 - 18NK     | 18                            | 70                 | 300                         | 2500                      | 12.5                     | 500                      |
| GSAM0805 - 22NK     | 22                            | 70                 | 300                         | 2400                      | 12.9                     | 550                      |
| GSAM0805 - 27NK     | 27                            | 70                 | 300                         | 1600                      | 14.5                     | 550                      |
| GSAM0805 - 33NK     | 33                            | 70                 | 300                         | 1600                      | 18.7                     | 500                      |

※Operating Temp. : -40°C ~ +125°C

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

## GSAM1008

Electrical Characteristics for GSAM1008 Series [GSAM1008 系列電子特性規格]

| Part Number<br>產品料號 | Inductance<br>(L) (nH)<br>電感值 | Q<br>(min)<br>品質因數 | Test Freq.<br>(MHz)<br>測試頻率 | SRF(MHz)<br>(min)<br>共振頻率 | DCR(mΩ)<br>(max)<br>直流阻抗 | IDC(mA)<br>(max)<br>定格電流 |
|---------------------|-------------------------------|--------------------|-----------------------------|---------------------------|--------------------------|--------------------------|
| GSAM1008 - 6N8K     | 6.8                           | 80                 | 300                         | >3000                     | 4.0                      | 1200                     |
| GSAM1008 - 8N2K     | 8.2                           | 80                 | 300                         | >3000                     | 5.0                      | 950                      |
| GSAM1008 - 10NK     | 10                            | 70                 | 300                         | >3000                     | 6.0                      | 950                      |
| GSAM1008 - 12NK     | 12                            | 70                 | 300                         | >3000                     | 6.5                      | 900                      |
| GSAM1008 - 15NK     | 15                            | 70                 | 300                         | 2500                      | 7.3                      | 900                      |
| GSAM1008 - 18NK     | 18                            | 70                 | 300                         | 2500                      | 9.6                      | 840                      |
| GSAM1008 - 22NK     | 22                            | 70                 | 300                         | 2400                      | 10.8                     | 840                      |
| GSAM1008 - 27NK     | 27                            | 70                 | 300                         | 1600                      | 13.9                     | 600                      |
| GSAM1008 - 33NK     | 33                            | 70                 | 300                         | 1600                      | 19.5                     | 500                      |
| GSAM1008 - 39NK     | 39                            | 70                 | 300                         | 1500                      | 21.6                     | 500                      |

※Operating Temp. : -40°C ~ +125°C

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