

**GANG SONG****SPECIFICATION FOR APPROVAL**






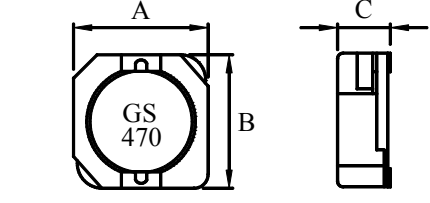
www.gangsong.com

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1.0

|                       |                                     |                       |                   |
|-----------------------|-------------------------------------|-----------------------|-------------------|
| <b>CUST. NAME</b>     | <b>C113</b>                         | <b>DATE</b>           | <b>SEP 21,16'</b> |
| <b>DESCRIPTION</b>    | <b>SMT Shielded Power Inductors</b> | <b>TYPE</b>           |                   |
| <b>GS PART NO.</b>    | <b>GSRH105RMN-470M03</b>            | <b>DWG. NO.</b>       | <b>059831</b>     |
| <b>CUST. PART NO.</b> |                                     | <b>GS SAMPLE. NO.</b> | <b>161892</b>     |

**1. MECHANICAL MEASUREMENTS**

| <b>DIMENSION (Unit :mm)</b> |            |             |   |  |  |  |  |
|-----------------------------|------------|-------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                             | 標準值        | 實測值         |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>A</b>                    | 10.3 (max) | 10.01~10.05 |  |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>B</b>                    | 10.4 (max) | 10.33~10.38 |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>C</b>                    | 5.0 (max)  | 4.81~4.83   |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>D</b>                    | 13.5 (max) | 12.20~12.43 |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>E</b>                    | 7.7±0.3    | 7.86~7.88   |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>F</b>                    | 3.0±0.1    | 2.97~3.00   |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>G</b>                    |            |             |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>H</b>                    |            |             |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>I</b>                    |            |             |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <b>J</b>                    |            |             |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |

Land Pattern    Equivalent Circuit

**2. ELECTRICAL MEASUREMENTS & TEST EQUIPMENT**

| TEST ITEM<br>檢驗項目/單位 | TEST FREQUENCY<br>測試頻率 | SPECIFICATION.<br>測試標準 |     | CONDITION.<br>測試條件 | TEST EQUIP.<br>測試儀器 |
|----------------------|------------------------|------------------------|-----|--------------------|---------------------|
| L                    | 100KHz/1mA             | 47                     | uH  | +/-20%             | HP4277A/V2+HP16047A |
| SRF                  |                        | 8.8                    | MHz | (typ)              | E4991A+HP16092A     |
| DCR                  |                        | 0.099                  | Ω   | (max)              | HP34401A            |
| Isat                 | 100KHz/1mA             | 2.5                    | A   | L ≤ 10%(typ)       | WK3260B+WK3265B     |
| Irms                 | 100KHz/1mA             | 2.2                    | A   | ΔT ≤ 40°C (max)    | WK3260B+WK3265B     |
| Marking              | GS<br>470(White)       |                        |     |                    |                     |
| Weight               | 1.85g                  |                        |     |                    |                     |
| Packaging            | 500PCS / 13"Reel       |                        |     |                    |                     |

DRAWN BY: Fion

CHECKED BY: David

APPROVED BY: William

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| <b>CUST. PART NO.</b> |                                     | <b>GS SAMPLE. NO.</b> | <b>161892</b>     |

**3. TESTING DATA**

| TEST ITEM<br>檢驗項目/單位   | L<br>(uH)               | SRF<br>(MHz)        | DCR<br>(Ω) | Isat<br>(uH)        | Irms<br>(A)                           |
|------------------------|-------------------------|---------------------|------------|---------------------|---------------------------------------|
| TEST FREQUENCY<br>測試頻率 | 100KHz/1mA              |                     |            | 100KHz/1mA          | 100KHz/1mA                            |
| TEST EQUIP.<br>測試儀器    | HP4277A/V2<br>+HP16047A | E4991A<br>+HP16092A | HP34401A   | WK3260B<br>+WK3265B | WK3260B<br>+WK3265B                   |
| SPECIFICATION.<br>測試標準 | 47+/-20%                | 8.80(typ)           | 0.099(max) | +0A                 | +2.5A<br>L ≤ 10%(typ)<br>≤ 40°C (max) |
| 1                      | 47.18                   | 5.19                | 0.076      | 47.18               | 43.09                                 |
| 2                      | 46.25                   | 5.14                | 0.075      | 46.30               | 41.25                                 |
| 3                      | 47.52                   | 5.82                | 0.074      | 47.58               | 42.65                                 |
| 4                      | 44.98                   | 4.87                | 0.072      | 44.94               | 41.13                                 |
| 5                      | 48.52                   | 4.92                | 0.073      | 48.53               | 43.32                                 |
|                        |                         |                     |            |                     |                                       |

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**4. RELIABILITY DATA**

|                              |                                         |
|------------------------------|-----------------------------------------|
| Operating Temperature        | -40°C~+125°C                            |
| Storage Temperature&Humidity | ≤ 40°C & 70% RH maximum                 |
| IR-Reflow Temperature        | 255°C±5°C                               |
| Solderability Validity       | Best before 6 months from shipping date |
|                              |                                         |
|                              |                                         |