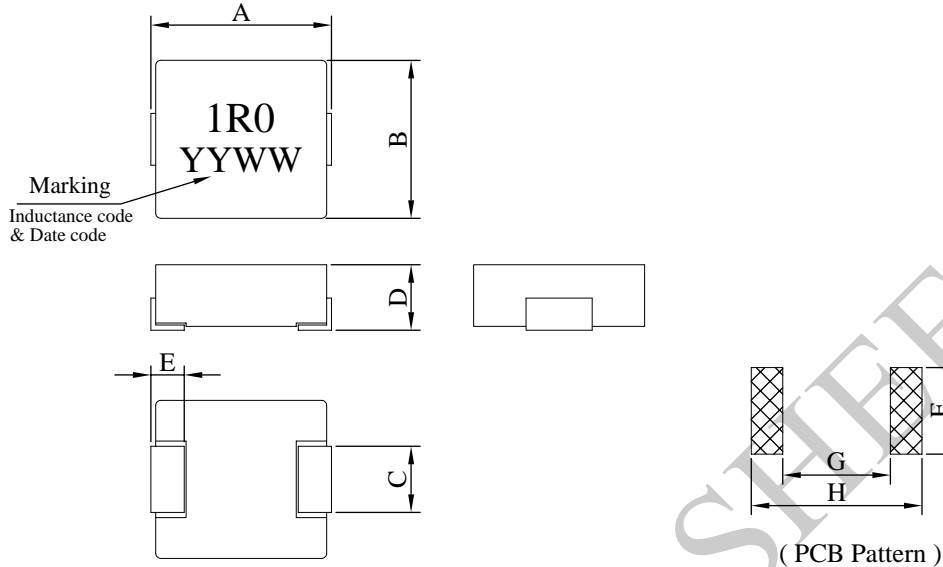


# SPECIFICATION FOR APPROVAL

REF :

|            |                             |               |                 |      |   |
|------------|-----------------------------|---------------|-----------------|------|---|
| PROD. NAME | Shielded Smd Power Inductor | ABC'S DWG NO. | GSSM0520□□□□2□U |      |   |
|            |                             | REV.          | 20200806        | PAGE | 1 |

## I . Configuration and dimensions :



Unit : mm

| A          | B          | C         | D         | E         | F         | G         | H         |
|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5.70 ±0.30 | 5.20 ±0.20 | 2.50 ±0.3 | 1.80 ±0.2 | 1.10 ±0.3 | 2.80 ref. | 2.20 ref. | 6.20 ref. |

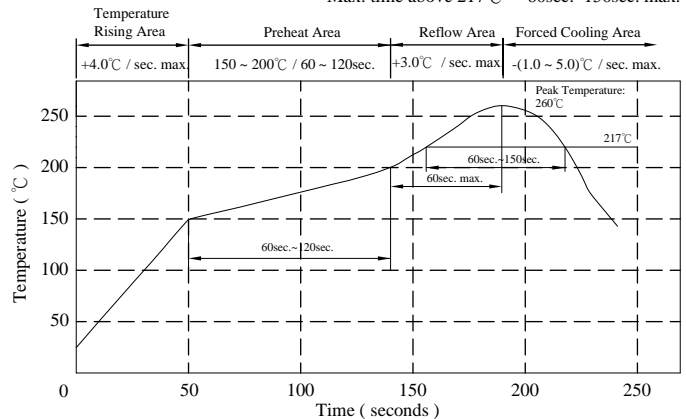
## II . Description :

- a . Powder molding construction
- b . Magnetically shielded
- c . Wire : Polyester wire or equivalent
- d . Products comply with RoHS' requirements
- e . Halogen free

## III . General specification :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+125°C  
( Temp. rise included )
- c . Resistance to solder heat : 260°C .10 secs.

Peak temp. : 260°C max.  
Max. peak temp. - 5°C : 30sec. max.  
Max. time above 217°C : 60sec.~150sec. max.



AR-001C

# SPECIFICATION FOR APPROVAL

REF :

|            |                             |               |                 |      |   |
|------------|-----------------------------|---------------|-----------------|------|---|
| PROD. NAME | Shielded Smd Power Inductor | ABC'S DWG NO. | GSSM0520□□□□2□U |      |   |
|            |                             | REV.          | 20200806        | PAGE | 2 |

IV . Electrical characteristics :

| DWG No.         | Inductance<br>( $\mu$ H) | Isat<br>( A )<br>typ. | Irms<br>( A )<br>typ. | RDC<br>( m $\Omega$ ) |       |
|-----------------|--------------------------|-----------------------|-----------------------|-----------------------|-------|
|                 |                          |                       |                       | max.                  | typ.  |
| GSSM0520R10Y2AU | 0.10 $\pm$ 30%           | 45.00                 | 18.00                 | 4.0                   | 3.6   |
| GSSM0520R12Y2AU | 0.12 $\pm$ 30%           | 35.00                 | 17.00                 | 4.3                   | 3.7   |
| GSSM0520R15Y2AU | 0.15 $\pm$ 30%           | 27.00                 | 16.00                 | 4.6                   | 3.8   |
| GSSM0520R22M2AU | 0.22 $\pm$ 20%           | 25.00                 | 15.00                 | 5.5                   | 4.0   |
| GSSM0520R24M2AU | 0.24 $\pm$ 20%           | 23.00                 | 13.00                 | 7.0                   | 6.0   |
| GSSM0520R33M2AU | 0.33 $\pm$ 20%           | 21.30                 | 12.00                 | 7.3                   | 6.3   |
| GSSM0520R36M2AU | 0.36 $\pm$ 20%           | 20.00                 | 11.80                 | 7.8                   | 6.8   |
| GSSM0520R47M2AU | 0.47 $\pm$ 20%           | 18.00                 | 11.50                 | 8.6                   | 7.3   |
| GSSM0520R56M2AU | 0.56 $\pm$ 20%           | 15.00                 | 10.70                 | 11.2                  | 9.3   |
| GSSM0520R68M2AU | 0.68 $\pm$ 20%           | 12.80                 | 10.00                 | 12.4                  | 11.0  |
| GSSM0520R82M2AU | 0.82 $\pm$ 20%           | 14.00                 | 8.50                  | 18.0                  | 15.0  |
| GSSM05201R0M2AU | 1.00 $\pm$ 20%           | 13.70                 | 7.00                  | 20.0                  | 17.5  |
| GSSM05201R2M2AU | 1.20 $\pm$ 20%           | 11.00                 | 6.20                  | 28.0                  | 23.0  |
| GSSM05201R5M2AU | 1.50 $\pm$ 20%           | 9.80                  | 5.50                  | 30.5                  | 26.5  |
| GSSM05202R2M2AU | 2.20 $\pm$ 20%           | 9.00                  | 4.20                  | 50.0                  | 42.0  |
| GSSM05202R7M2AU | 2.70 $\pm$ 20%           | 8.20                  | 4.00                  | 58.0                  | 50.0  |
| GSSM05203R3M2AU | 3.30 $\pm$ 20%           | 7.30                  | 3.30                  | 76.0                  | 66.0  |
| GSSM05204R7M2AU | 4.70 $\pm$ 20%           | 5.00                  | 2.80                  | 116.0                 | 103.0 |
| GSSM05205R6M2AU | 5.60 $\pm$ 20%           | 4.00                  | 2.50                  | 122.0                 | 112.0 |
| GSSM05206R8M2AU | 6.80 $\pm$ 20%           | 3.80                  | 2.40                  | 150.0                 | 130.0 |
| GSSM05208R2M2AU | 8.20 $\pm$ 20%           | 3.50                  | 2.30                  | 171.0                 | 148.0 |

AR-001C

# SPECIFICATION FOR APPROVAL

REF :

|               |                             |               |                 |      |   |
|---------------|-----------------------------|---------------|-----------------|------|---|
| PROD.<br>NAME | Shielded Smd Power Inductor | ABC'S DWG NO. | GSSM0520□□□□2□U |      |   |
|               |                             | REV.          | 20200806        | PAGE | 3 |

## IV . Electrical characteristics :

| DWG No.         | Inductance<br>( $\mu$ H ) | Isat<br>( A )<br>typ. | Irms<br>( A )<br>typ. | RDC<br>( $m\Omega$ ) |       |
|-----------------|---------------------------|-----------------------|-----------------------|----------------------|-------|
|                 |                           |                       |                       | max.                 | typ.  |
| GSSM0520100M2AU | $10.00 \pm 20\%$          | 3.40                  | 2.30                  | 199.0                | 180.0 |
| GSSM0520150M2AU | $15.00 \pm 20\%$          | 2.80                  | 1.90                  | 270.0                | 240.0 |
| GSSM0520220M2AU | $22.00 \pm 20\%$          | 1.80                  | 1.50                  | 390.0                | 350.0 |

- 1). Electrical specifications at 25°C
- 2). Measured frequency of inductance is 100 kHz / 1V
- 3). Isat base on  $\Delta L/L0A = 30\%$  typ. (Approximately transient current)
- 4). Irms base on Temp. rise 40°C typ.

DRAFT SPEC SHEET

AR-001C

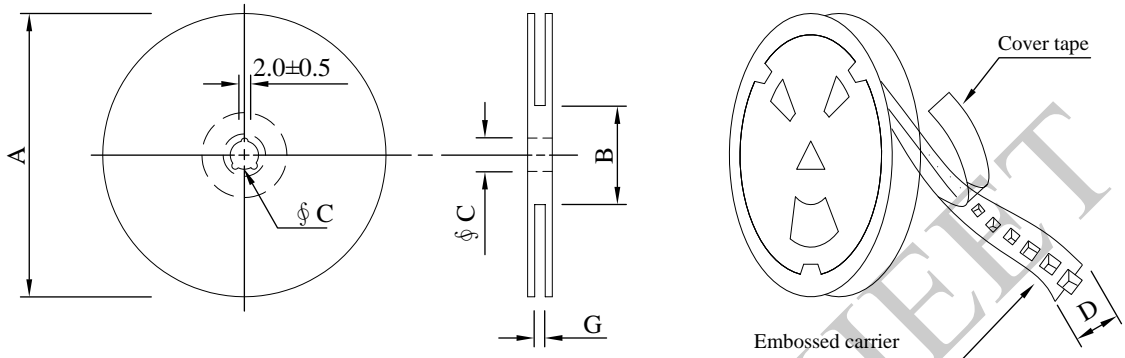
# SPECIFICATION FOR APPROVAL

REF :

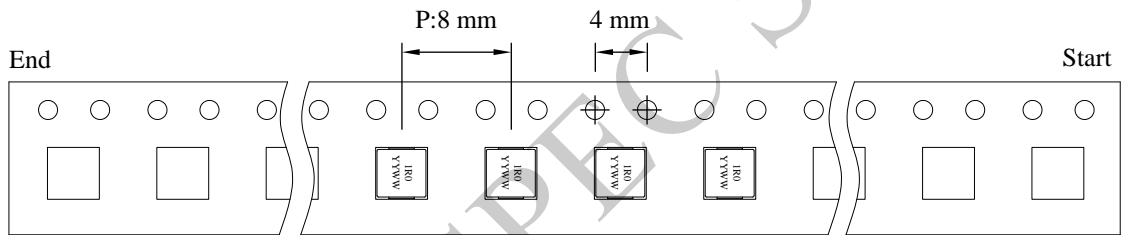
|            |                             |               |                 |      |   |
|------------|-----------------------------|---------------|-----------------|------|---|
| PROD. NAME | Shielded Smd Power Inductor | ABC'S DWG NO. | GSSM0520□□□□2□U |      |   |
|            |                             | REV.          | 20200806        | PAGE | 4 |

**V . Packaging information :**

( 1 ) Configuration



※Carrier tape width : D



( 2 ) Dimensions

Unit:mm

| Style   | A   | B        | C                                  | D  | G                                |
|---------|-----|----------|------------------------------------|----|----------------------------------|
| 13 - 12 | 330 | 100 ±0.2 | 13 <sup>+0.5</sup> <sub>-0.2</sub> | 12 | 12.4 <sup>+2</sup> <sub>-0</sub> |

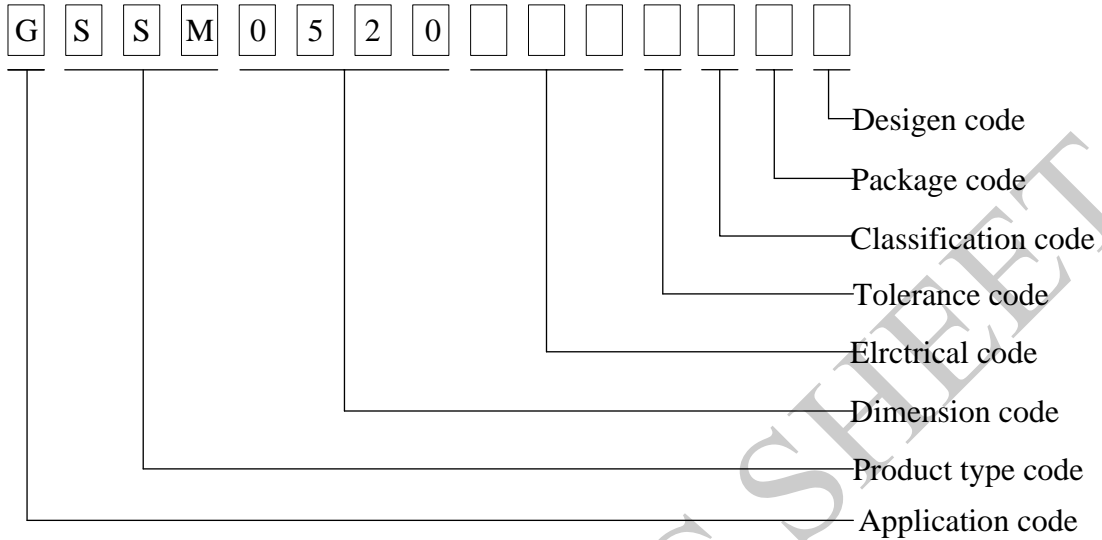
AR-001A

# SPECIFICATION FOR APPROVAL

REF :

|            |                             |               |          |                 |   |  |
|------------|-----------------------------|---------------|----------|-----------------|---|--|
| PROD. NAME | Shielded Smd Power Inductor | ABC'S DWG NO. |          | GSSM0520□□□□2□U |   |  |
|            |                             | REV.          | 20200806 | PAGE            | 5 |  |

VI . Drawing number expression :



Package Information

| Code | Inner package          | Inner package Q'TY | Remark |
|------|------------------------|--------------------|--------|
| A    | T / R ( Reel package ) | 3,000 PCS          |        |

AR-001C