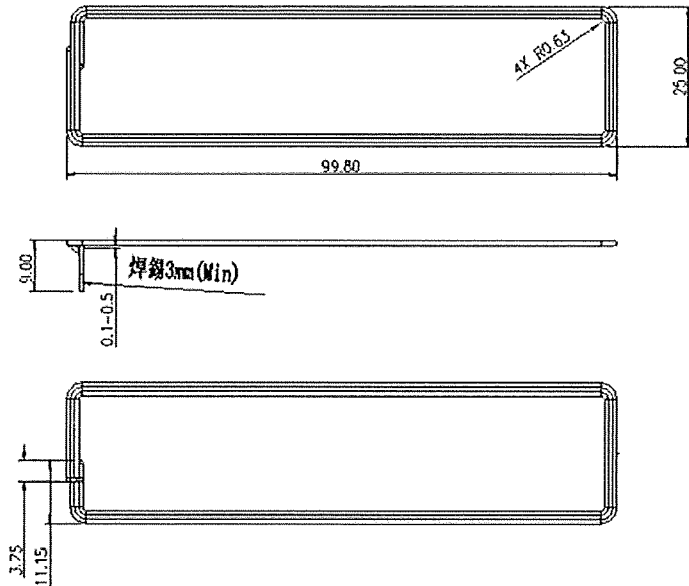


SGR-0.75x99.8x3-S Specification

APPLICATION

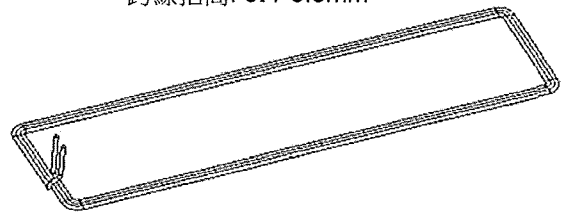
NFC Antenna can be used for data loggers transport and Industrial data collection.

1. Shapes and Dimension



S1L2天線規格

線徑: 0.75mm
繞圈: 3 圈
未標示公差部分: +/-0.7mm
R 角及角度公差: typ.
跨線抬高: 0.1-0.5mm



Tolerances: +/- 0.7mm
Angle tolerance: typ.
Unit: mm

- a、magnet wire : 0.75mm ◦
- b、Wound coil 2 to 4(The following picture is 3 laps) ◦
- c、magnet wire : Self-Bonding Magnet Wires ◦

1-1、Measurement Description See Note 1

2. Specification

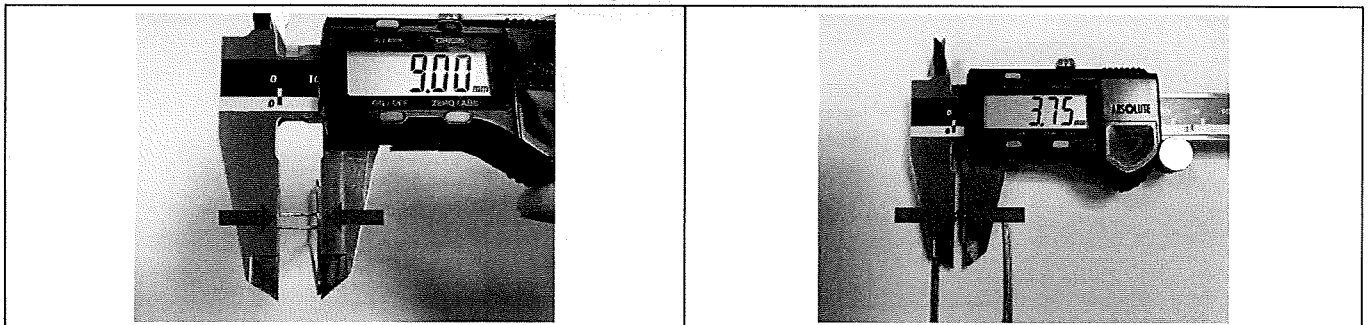
$L_s=1.43\mu H (\pm 10\%)$ $Q=80(\text{min.})$
Test L_s & Q Freq.:13.56MHz
Test Temp.:25 ±3°C

3. Operating Temperature Range

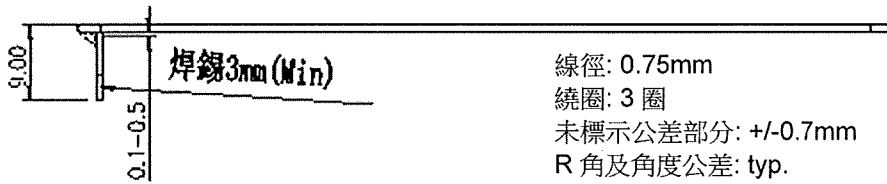
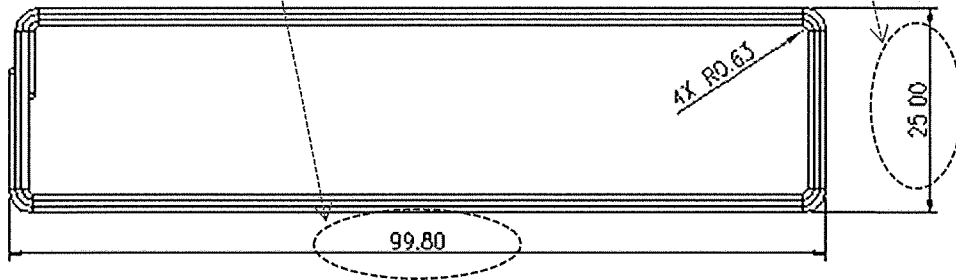
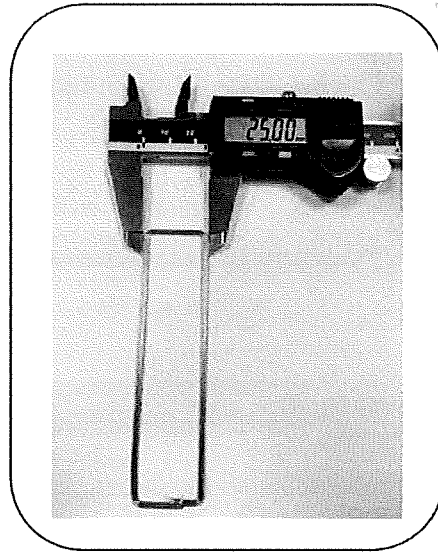
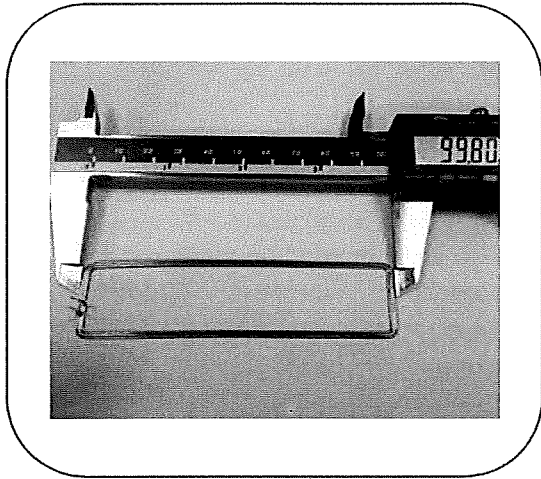
-40°C to +105°C

Note 1

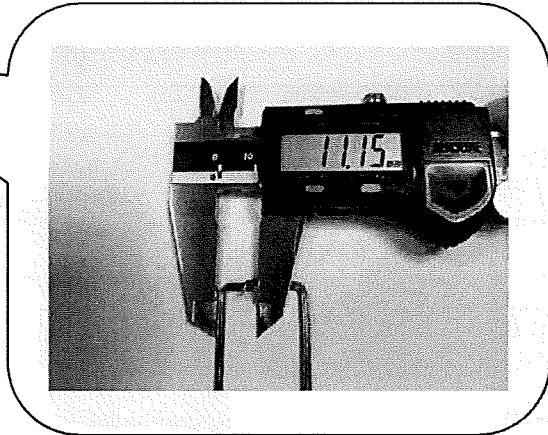
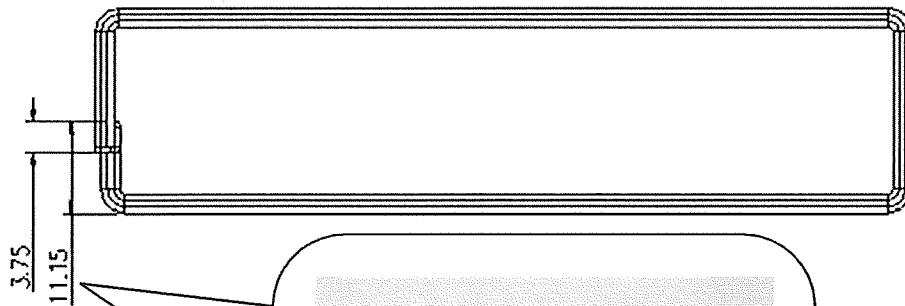
Measurement Point, refer to the following Picture



When measuring this product, please use your fingers Flatten measuring



線徑: 0.75mm
 繞圈: 3 圈
 未標示公差部分: +/-0.7mm
 R 角及角度公差: typ.
 跨線抬高: 0.1-0.5mm



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耕興股份有限公司
SPORTON INTERNATIONAL INC.

Specification for Approval

Customer : 虹堡科技股份有限公司

Part Description : Air Coil

SPORTON Part No. : SGR-0.75x99.8x3-S

Customer Part No. : 311600108000

Issued Date : 2019/03/27

| PURCHASER CONFIRMED | | |
|---------------------|--|--|
| | | |

| DRAWN BY | CHECKED BY | APPROVED BY |
|-------------|---------------|---------------|
| <i>Anne</i> | <i>Angela</i> | <i>Morris</i> |

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4. Reliability and Test Conditions

| Test | Specifications | Test Conditions |
|-------------------|---|---|
| Solder-ability | 1. More than 95% of the terminal electrode should be covered with solder. | Solder temperature : $245 \pm 5^{\circ}\text{C}$ Soldering time : 4 ± 1 sec |
| Temperature cycle | 1. No mechanical damage. | Step 1. 30 ± 5 minutes at $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, Step 2. ≤ 0.5 minutes at $+25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Step 3. 30 ± 5 minutes at $+105^{\circ}\text{C} \pm 2^{\circ}\text{C}$, Total 500 continuous cycles Measurement to be made after keeping at room temperature for 24 ± 2 hours. |
| Life Test | 1. No mechanical damage. | Temperature : $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Test duration : 1000 ± 12 hours Measurement to be made after keeping at room temperature for 24 ± 2 hours. |
| Humidity | 1. No mechanical damage. | Humidity : $85 \pm 2\%$ RH Temperature : $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Test duration : 1000hrs Min. with 100% rated current Measurement to be made after keeping at room temperature for 24 ± 2 hours. |