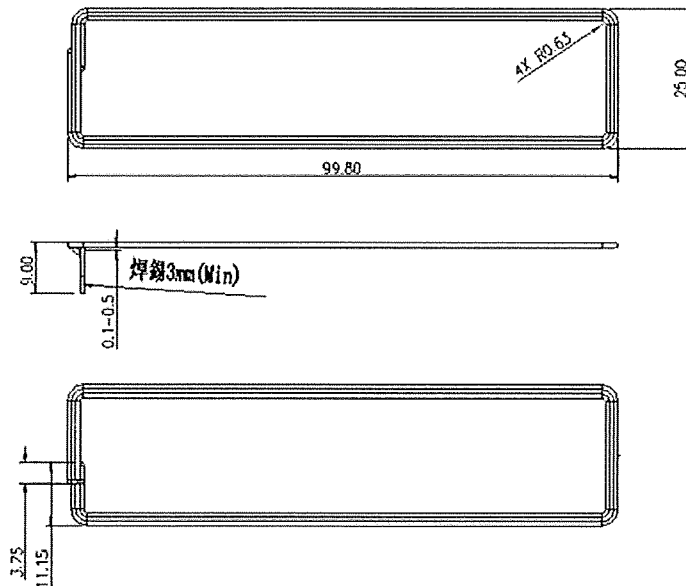


SGR-0.75x99.8x3-S Specification

APPLICATION

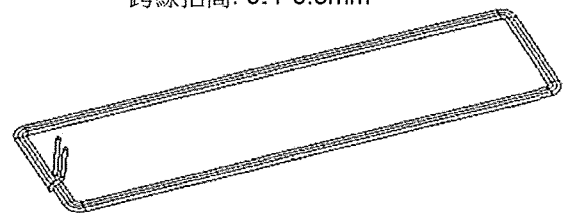
NFC Antenna can be used for data loggers transport and Industrial data collection.

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

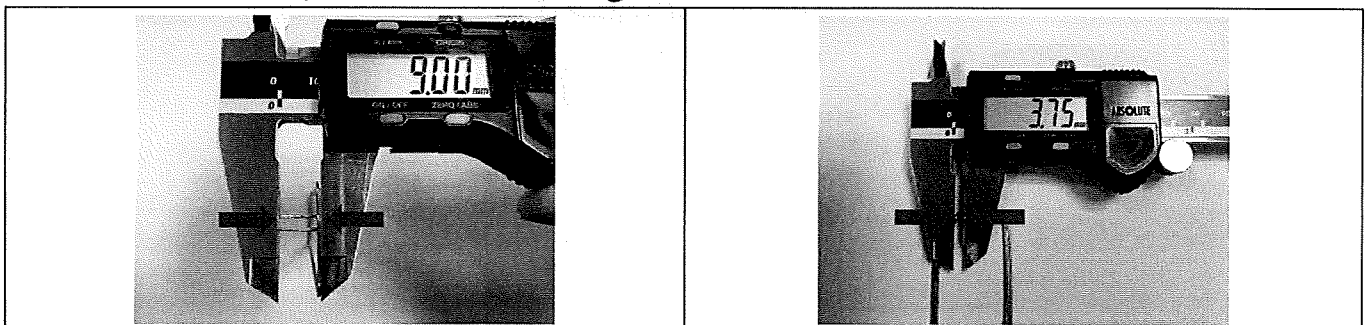
Test Temp.: $25 \pm 3^\circ C$

3. Operating Temperature Range

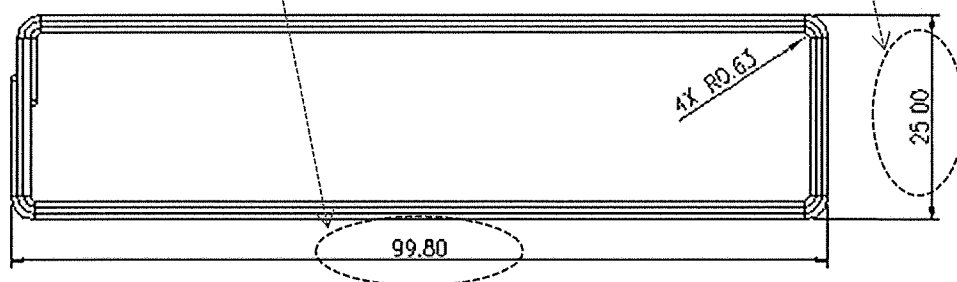
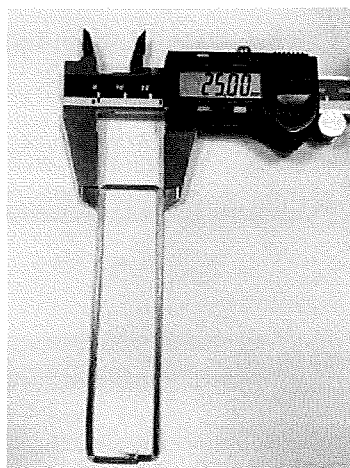
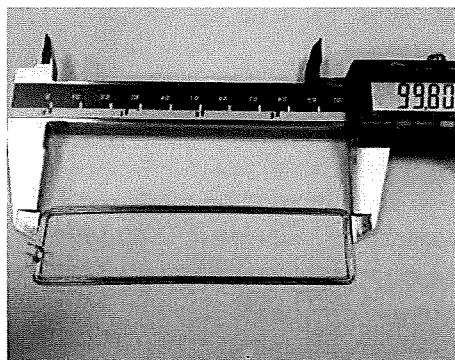
$-40^\circ C$ to $+105^\circ C$

Note 1

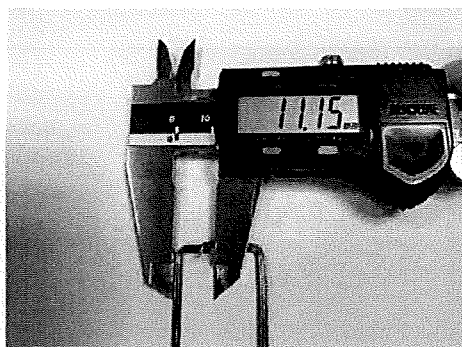
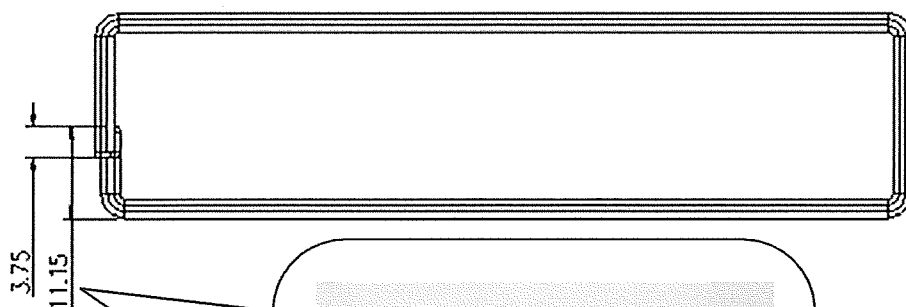
Measurement Point, refer to the following Picture



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: $\pm 0.7\text{mm}$
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
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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.	Step1. 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 : $85 \pm 2\% \text{RH}$ 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.