

	Product Specification
Model: ISTO-A1625H12T	RoHS
Revision: original version	Effective Date: 2016-08-16
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Revision

The first version.

1 Applications

Mainly used for ultrasonic ranging, smoke detector, parking system, robot R&D, liquid level measurement and so on.

2 Features

- 2.1 Transmitter: "T" mark on housing
- 2.2 Compact and light weight
- 2.3 High sound pressure level
- 2.4 Less power consumption
- 2.5 High reliability



3 Technical Specifications



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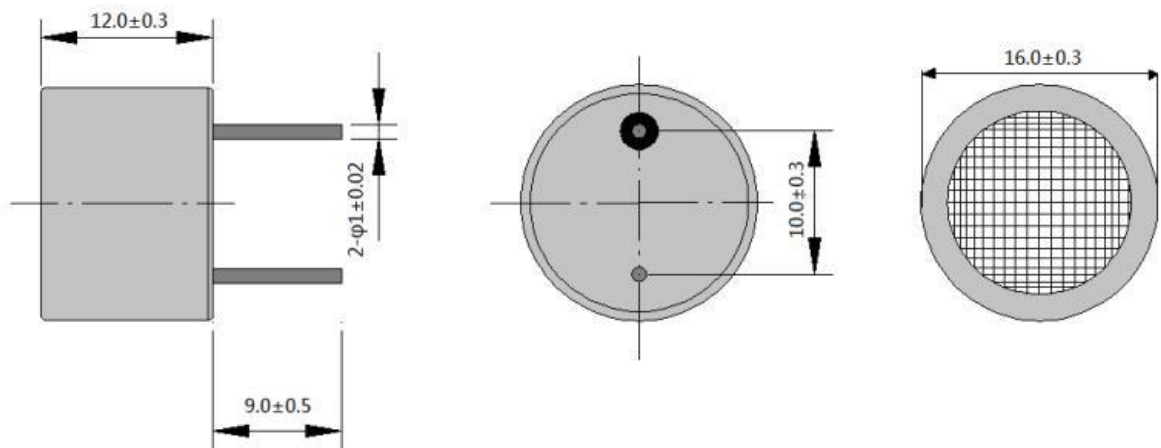
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Item	Value
Using method	Transmitter
Center frequency	25±1KHz
Sound pressure level	115dB (10V/30cm/sine wave)
Directivity	80deg
Capacitance	2600pF±20%@1KHz
Operating temperature	-30 to +85°C
Measure distance	0.2~12m
Metals of case	Aluminum
Weight	2.31g

4 Mechanical Drawing

units:mm



5 Beam Pattern



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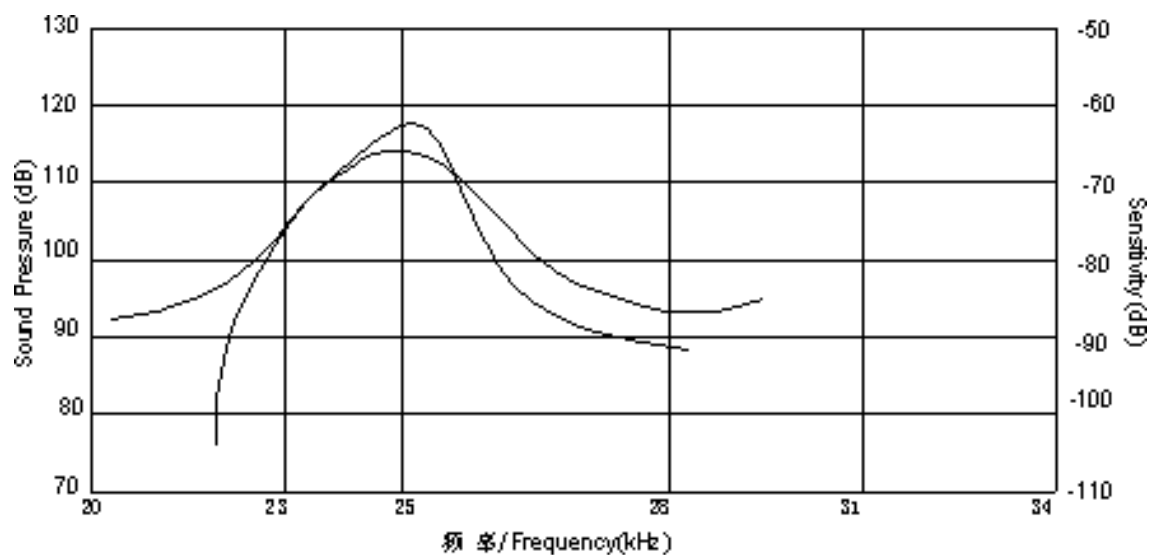
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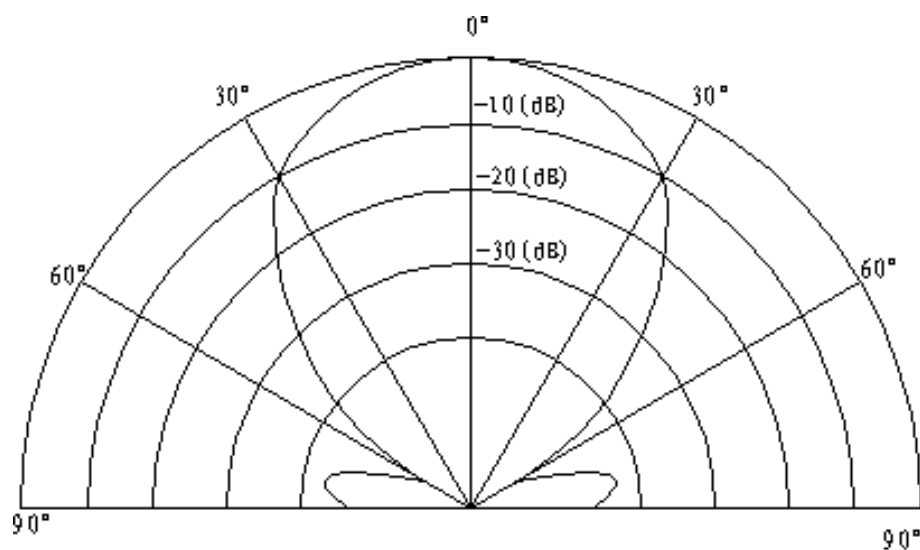
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频率特性图/Frequency Characteristics

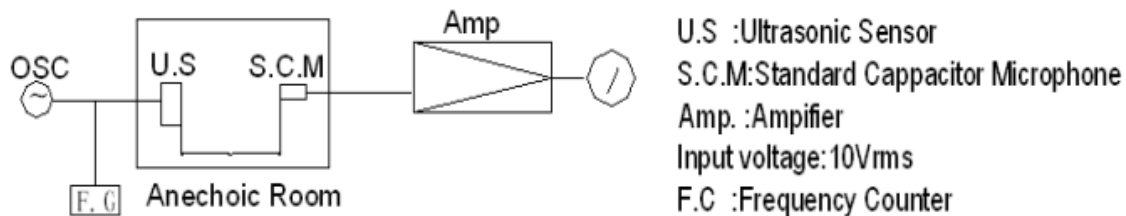


Directivity in Overall Sensitivity

6 Test Circuit

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Transmitter



7 Reliability Test

- | | |
|--|-----------------------|
| 7.1 High Temp. Life Test | |
| Temperature | +85±3℃ |
| Duration | 100 hrs |
| 7.2 Low Temp. Life Test | |
| Temperature | -40±3℃ |
| Duration | 100 hrs |
| 7.3 Heat Cycle Test | |
| Temperature | +85±3℃ 1hour |
| | -40±3℃ 1hour |
| Cycles | 10 cycles |
| 7.4 Humidity Test | |
| Temperature | +60±2℃ |
| Relative Humidity | 90~95% |
| Duration | 100 hrs |
| 7.5 Vibration Test | |
| Vibration Frequency | 10~55Hz |
| Sweep Period | 1.5 min |
| Direction | x,y&z |
| Time | 2 hours/direction |
| 7.6 Shock Test | |
| Acceleration | sine 100G |
| Direction | x,y&z |
| Shock Time | 3 times/direction |
| 7.7 Drop Test | |
| Height | 1 m on concrete floor |
| Times | 2 times |
| 7.8 Connector Soldering Check: | |
| Immersing terminal up to 1mm below in soldering bath at 260℃ 10 Seconds. | |
| Notice: | |

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The variation of the S.P.L at 40KHz is within 2dB compared with initial figures at 25°C in 24 hours after above test conditions.

8 Caution in Use

- 8.1 Please avoid applying an excessive stress to the transducer because it might be damaged.
- 8.2 The transducer may generate surge voltage by mechanical or thermal shock. Care should be taken to protect from it in designing your application circuit.
- 8.3 Please do not apply DC voltage to the transducer.
- 8.4 Please do not use the transducer in water.
- 8.5 The piece of sensor may be damaged by force pressure from back of sensor.
- 8.6 Please well evaluate the painting and electrical characteristic for your coating.
- 8.7 When used to distinguish between positive and negative.

9 Note

- 9.1 Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.
- 9.2 You are requested not to use our product deviating from the agreed specifications.
- 9.3 We consider it not appropriate to include any terms and conditions with regard to the business transaction in the product specifications, drawings or other technical documents.

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10 Packaging Details

