(((((MAIDA	Product Specification
Model: MDO-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





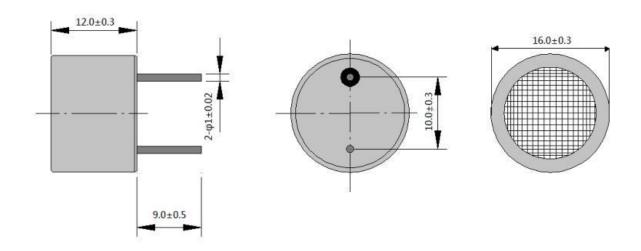
3 Technical Specifications

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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

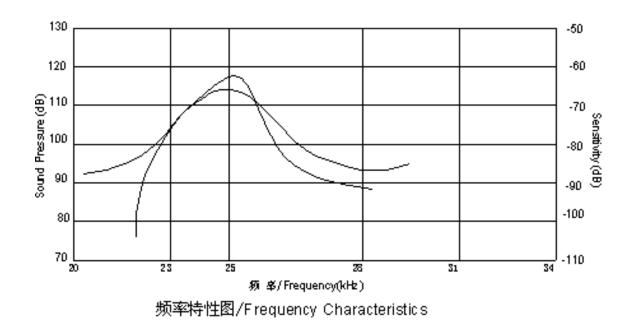
4 Mechanical Drawing

units:mm



5 Beam Pattern

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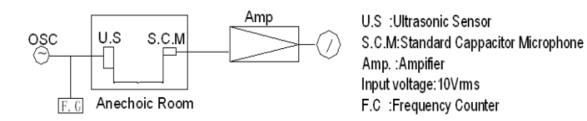


0°
-10 (dB)
-20 (dB)
-30 (dB)

6 Test Circuit

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Transmitter



7 Reliability Test

Seconds.

Notice:

7.1 High Temp. Life Test	
3 1	+85±3℃
Temperature Duration	
	100 hrs
7.2 Low Temp. Life Test	40 0°C
Temperature	-40±3℃
Duration	100 hrs
7.3 Heat Cycle Test	A 1 A00 41
Temperature	+85±3℃ 1hour
	-40 ±3 $^{\circ}$ C 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:	

Tel: 86-519-81290886 E-mail: sales@maidaelectr.com Http://www.maidaelectr.com

Immersing terminal up to 1mm below in soldering bath at 260 °C 10

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The variation of the S.P.L at 40KHz is within 2dB compared with initial figures at 25 ℃ 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

