



SPECIFICATION FOR ULTRASONIC SENSOR

TOTAL PAGE

7

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RoHS

Customer		Model Name	BPU19175IFAH11
Customer P/N		Product No.	100540
Date	10 JAN. 2012	Issue No.	BS/TEU01.341
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Approval:

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- 2.Features
- 3.Technical terms
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- 6.Test Circuit
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- 8.Notice
- 9.Packing
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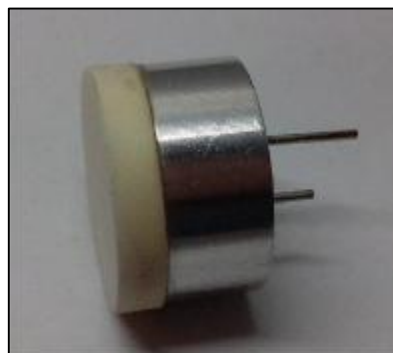
Drawn by	Checked by	Approved by	Customer approved
倪雪晴	邹皓轩	李红元	

BESTAR ELECTRONICS INDUSTRY CO.,LTD

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BPU19175IFAH11



1.Applications

- 1.1)Level measurement
- 1.2)Automation control
- 1.3)Proximity
- 1.4)Obstacle avoidance
- 1.5)Robotics

2.Features

- 2.1) Rugged sealed construction.
- 2.2) Cylindrical design allows for installation in various applications.
- 2.3) Short-range measurement capabilities.

3.Technical terms

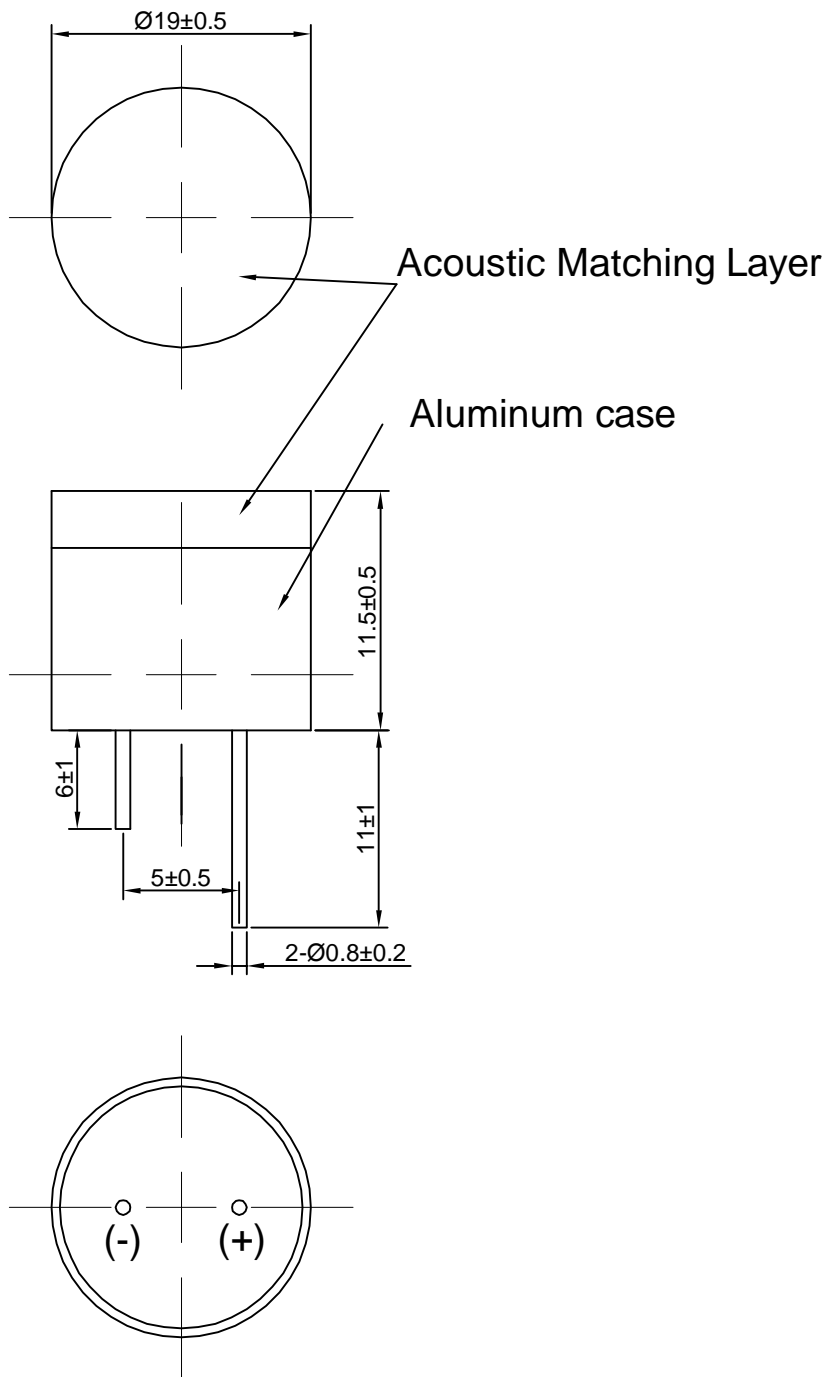
Item	Unit	Specification
Construction		Water Proof
Using Method		Dual Use
Center Frequency	KHz	175±10
Receive Sensitivity Echo	V	≥1.0V (Tested under 200Vp-p, at 20cm)
Capacitance	pf	450±25%
Max.Input Voltage(Pulse)		500Vp-p
Directivity (-3dB)	°	7±2
Distance of Detection		0.1~2M
Protection class		IP65
Material		Aluminum
Operating Tem.Range	℃	-20 ~ +80
Storage Tem.Range	℃	-35 ~ +85

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Rev.	Date	Drawn	Note	Approved by:	李红元	
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4.Drawing

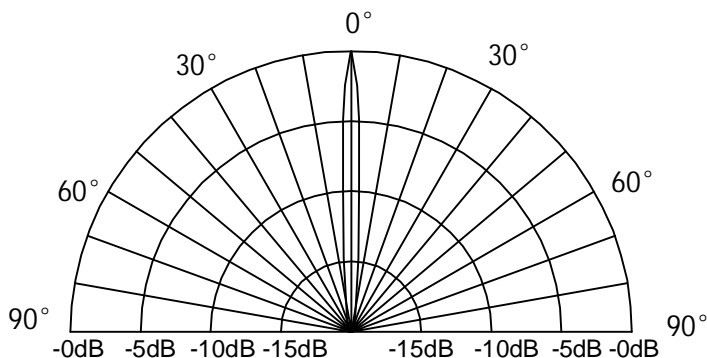


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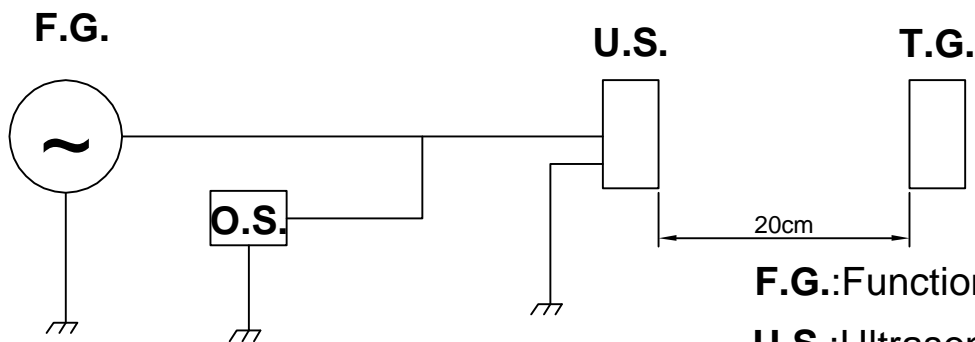
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5. Beam Pattern



Directivity in Overall Sensitivity

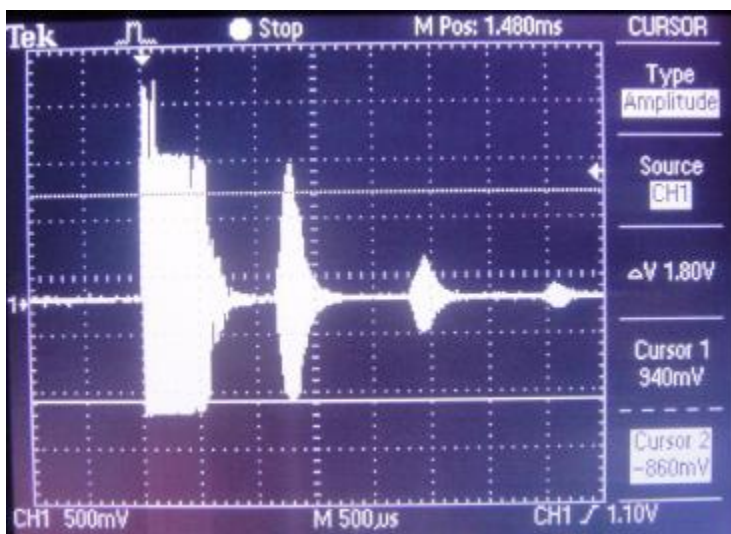
6. Test circuit



- F.G.:**Function Generator
- U.S.:**Ultrasonic Sensor
- T.G.:**Target
- O.S.:**Oscilloscope

7. Echo sensitivity/Ringing

Tested under 200Vp-p,50bursts,20cm



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8.2 Please contact our sales representatives or product engineers before using the products in the specification or catalogue for the applications listed below, which require especially high reliability for the prevention of defects which might directly damage a third party's life, body or property, or when one of our products is intended for use in applications other than those specified in this specification.

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- b) Undersea equipment and Power plant equipment
- c) Medical equipment and Transportation equipment (vehicles, trains, ships, etc.)
- d) Traffic signal equipment i Disaster prevention / crime prevention equipment
- e) Data-processing equipment including Application of similar complexity and/or reliability requirements to the applications listed above

8.3 Product specifications and catalogues are subject to change and our products in them may be discontinued without advance notice.

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8.4 Please read rating and CAUTION (for storage, operating, rating, soldering, mounting and handling) in this specifications in order to prevent smoking and/or burning, etc.

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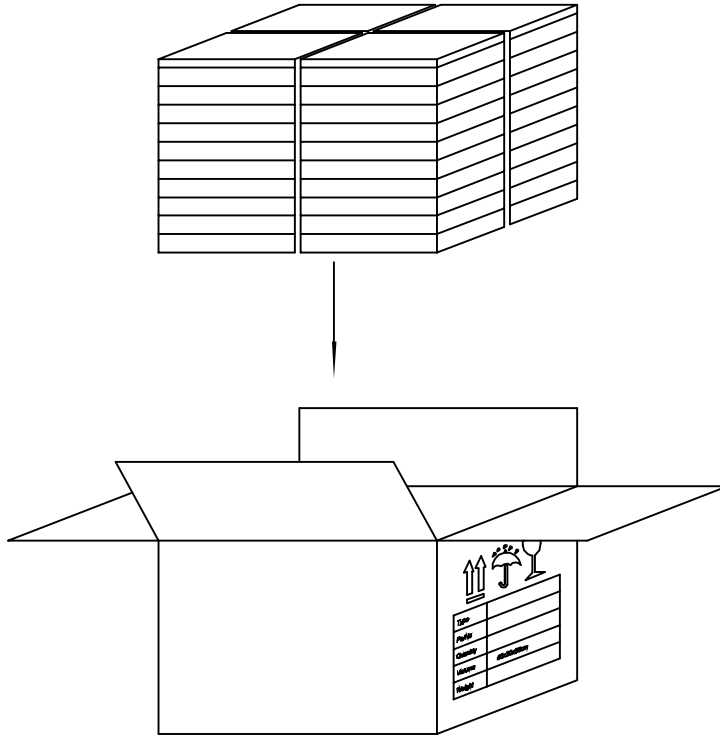
8.6 No ozone depleting substances (ODS) under the Montreal Protocol are used in our manufacturing process.

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9.Packing



Quantity: { 50 PCS/Foam tray
20 Foam tray/Box
1000 PCS/Box

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