

SPECIFICATION FOR APPROVAL

承 认 书

Customer : _____
Description : **Ultrasonic sensor**
Vender's Part No. : **KS-A1640H12AT/R**
Customer No. : _____
Date : **2015-12-17**

CUSTOMER'S APPROVED SIGNATURE		



DONGGUAN COSSON ELECTRONIC PLASTIC CO.,LTD

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Approved By	Checked By	Made By
colin	Chen JO	高叶

承认后请回签一份！谢谢！

Please sign back after admitted a ! Thank you very much !

A、SCOPE 范围

This specification applies ultrasonic sensor diaphragm, KS-A1640H12AT/R

此规格适用于超声波传感器, KS-A1640H12AT/R

B、SPECIFICATION 规格

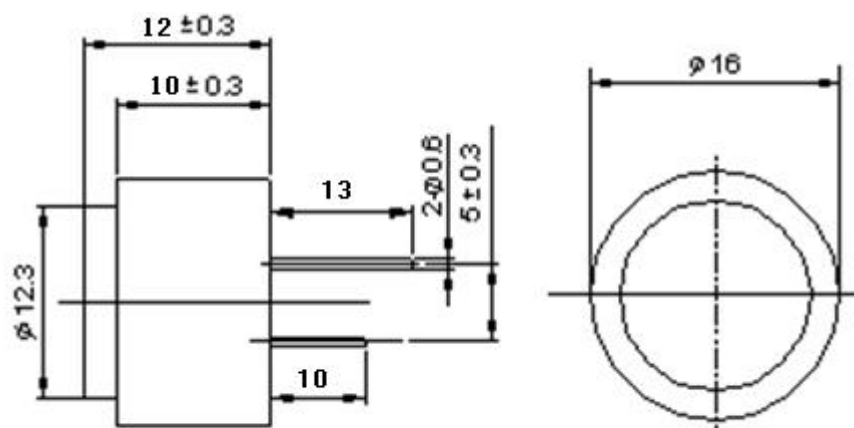
No.	Item	Unit	Specification		Condition
			KS-A1640HA12T	KS-A1640HA12R	
1	结构方式 Construction		Open structure type 防水式	Open structure type 防水式	
2	使用方法 Using Method		Transmitter 发射头	Receiver 接收头	
3	中心频率Fo Center Frequency	KHz	40±1	40±1	
4	自由电容 Free Capacitance	PF	2200±20%	2200±20%	at 1KHz
5	声压 Min. Sound Pressure level	dB	≥100	—	10Vrms/00cm
6	灵敏度 Sensitivity	dB	—	≥-84	
7	最大输入电压 Maximum input voltage	Vp-p	40	40	
8	指向性 Directivity	°	80°±15°(-6dB)	80°±15°(-6dB)	
10	外壳材料Material		ALUMINUM	ALUMINUM	
11	Operating temp 操作温度	°C	-30~+85	-30~+85	
12	Storage temp 储存温度	°C	-40~+90	-40~+90	
13	Dimension 尺寸	mm	16*12	16*12	See appearance drawing

C、Soldering Condition 焊接条件

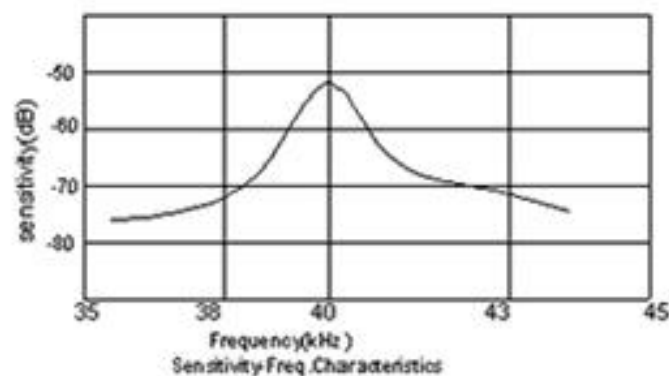
Buzzer Soldering process 蜂鸣器焊接方法	Soldering Parameter 焊接参数	
	温度 Temp.(°C)	时间 Time(Sec.)
<input type="checkbox"/> 回流焊 Reflow soldering	回流焊温度:255±5	220~255°C 40s(详见曲线图)
<input checked="" type="checkbox"/> 波峰焊 Wave soldering	255±5	3~4s
<input checked="" type="checkbox"/> 手工焊 Manual soldering	320~350	2~3s
带■号为科森电子推荐的焊接方法 Remark: ■COSSON Instance Soldering Process		

D、APPEARANCE DRAWING 外观尺寸图

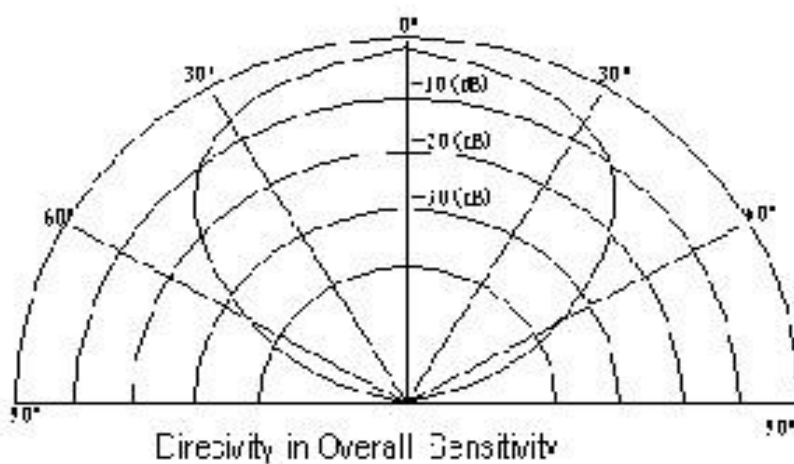
Unit:mm



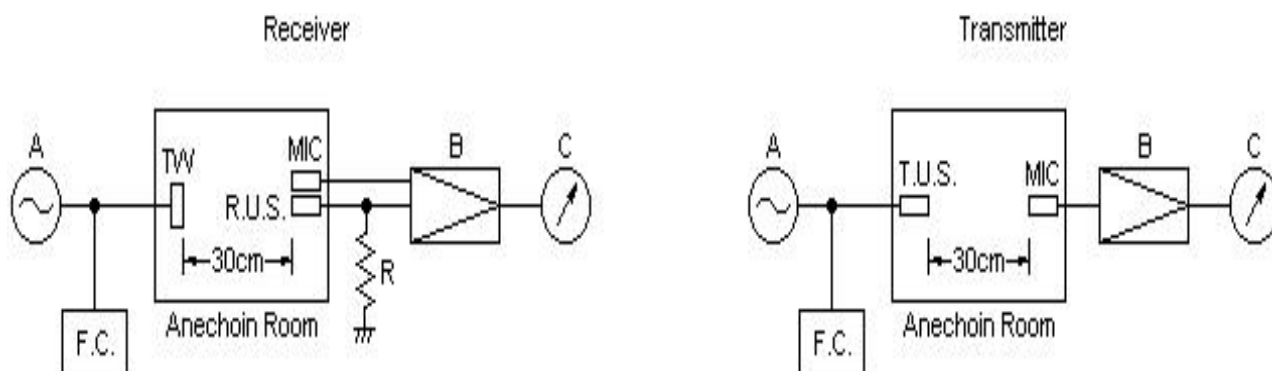
E、INPUT VOLTAGE/S.P.L CHARACTERISTICS 频率特性图



F、DIRECTIVITY 方向特性图



G、TEST CIRCUIT 测试线路推荐



A: Oscillator B: Amplifier C: Voltmeter R: 3.9K MIC: Microphone TW: Tweeter R.U.S.: Receiver Ultrasonic Sensor T.U.S.: Transmitter Ultrasonic Sensor F.C.: Frequency Counter

※ NOTES

- ⌘ This sensor is designed for use in air. Do not use this sensor in fluid.
- ⌘ To prevent sensor malfunctions, operational failure or any deterioration of its characteristics, do not use this sensor in the following, or similar conditions.
 - A. In strong shock or vibration.
 - B. In high temperature and humidity for a long time. C. In corrosive gases or sea breeze.
 - D. In an atmosphere of organic solvents.
- In dirty and dusty environments that may contaminate the sensor front.