EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

AIR ULTRASONIC TRANSDUCERS

MODEL: C4016L8A40x

1. Features

- High sensitivity, high sound pressure level, uniform in quality
- Excellent vibration and shock resistance.
- Big operation range.
- **Measurement distance <16 meters**

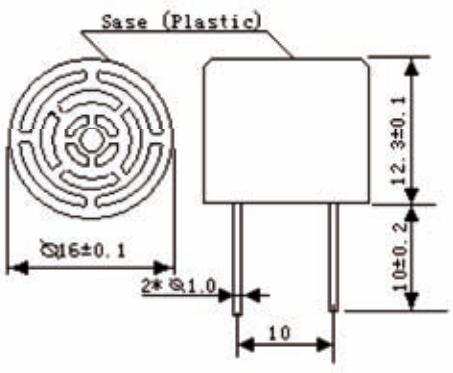
2. Applications

- Burglar alarm
- Level meter
- Sensor for counter
- Distance meter.

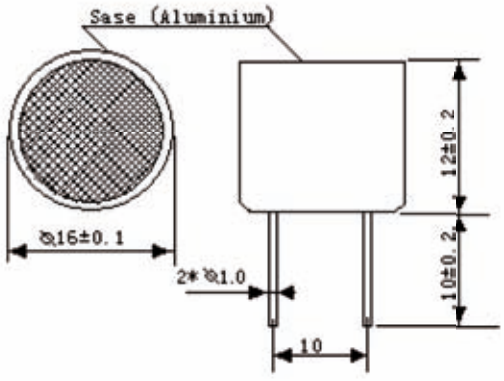
3. Ratings

PARTS NUNBER	C4016L8A401	C4016L8A402
Center frequency (kHz)	40.0±1.0kHz	40.0±1.0kHz
Overall Sensitivity 0dB=10Vp-p	≦-45dB	≦-45dB
Capacitance (pF)	2700±30%	2700±30%
Housing material/mesh color	Plastic housing/black	Aluminum/black or white
Detecting angle	40 degree	40 degree
Resolution	9mm	9mm

4. dimensions:



(1)



(2)

Part number identify:

C	40------- 16	L8	A40	X
(1)	(2) (3)	(4)	(5)	(6)

(1): C: Combine transmitter and receiver in one unit.

(2): 40: Cener Frequency：40 ±1KHz

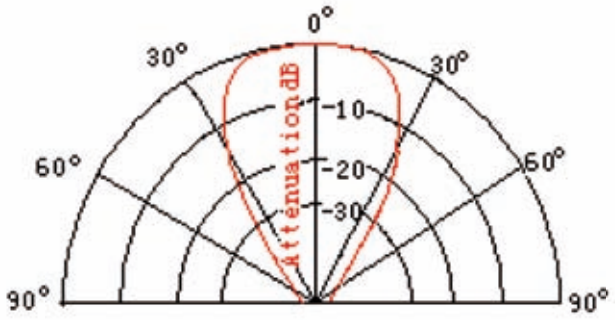
(3): 16: Dia.=16mm.

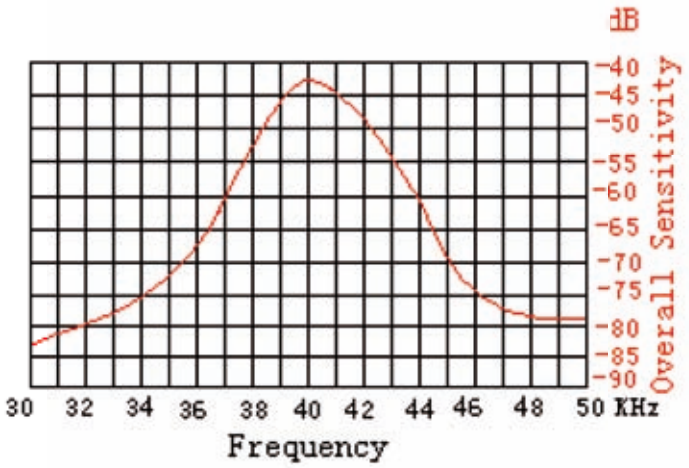
(4): L8: means long distance detecting type.

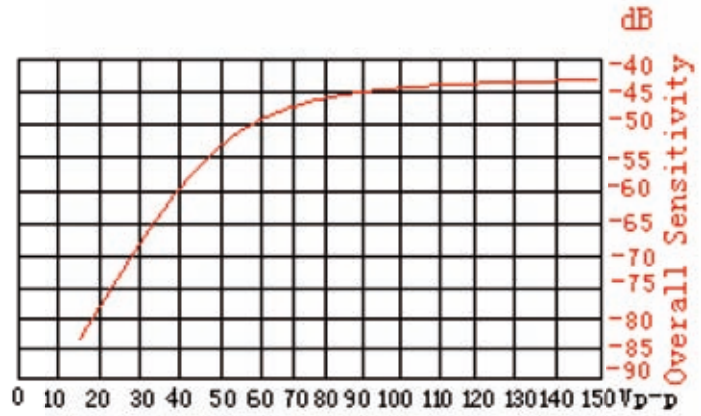
(5): A40: Angle is 40 degree.

(6): X : means package type. 1 is black plastic housing, 2 is aluminum housing.

5. Relative curve:

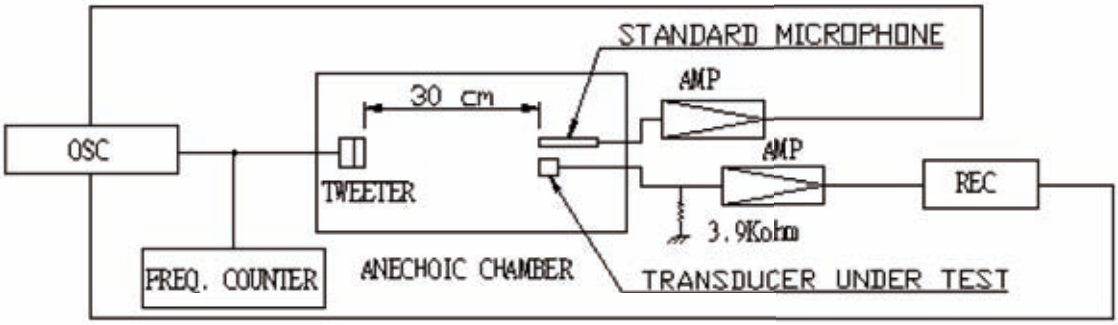




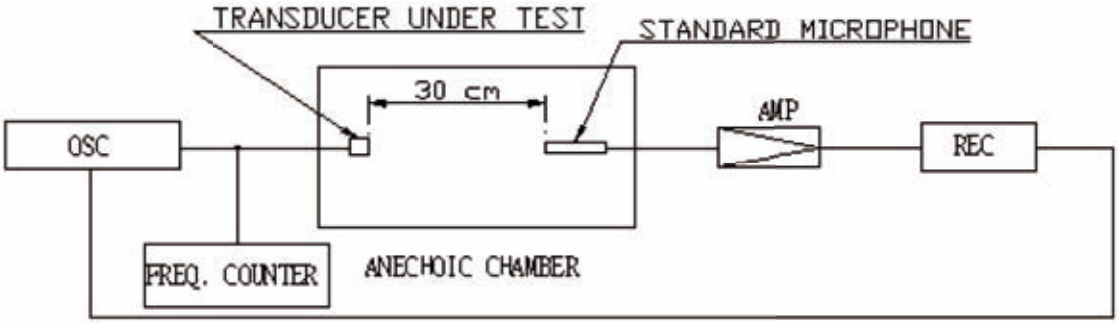


6.Test Circuits Diagram

a) Test Circuit Diagram for Receiving



b) Test Circuit Diagram for Transmitting



7. Environmental Characteristics

Item	Conditions	Variation of Sensitivity
Temperature Characteristics	-20~60°C	Within 10 dB
Hmidity	40±2°C, 85-90 %RH, 2Hrs	Within 5 dB
Shock	50G impact Directions : 3 perpendicular directions Times : 3 times	Within 5 dB
Vibration	Directions : 3 perpendicular Directions Times : 1000 times Single harmonic vibration a) Amplitude: 1.5mm b) Sweep Frequency : 10-50-10Hz with interval of 1 minute	Within 5 dB