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AIR ULTRASONIC TRANSDUCERS

Enclose type EC4018

1. Features

- High sensitivity, high sound pressure level, uniform in quality
- Excellent vibration , shock and water resistance.
- Big operation range.

2. Applications

- Remote control of electronic appliance.
- Back sensor, Back meter for car use.
- Level meter
- Switch for electronic application.

3. Ratings

Part number	Center frequency (KHz)	Sound pressure level At 10V 30cm (0dB=0.02mPa)	Sensitivity at 10V, 30 cm (0dB=10v/Pa)	Capacitnce (±30%PF)
EC4010	40	>98dB	<-67dB	2000
EC4012	40	>100dB	<-67dB	2000
EC4014	40	>100dB	<-67dB	2000
EC4016	40	>100dB	<-65dB	2000
EC4018	40	>100dB	<-65dB	2000

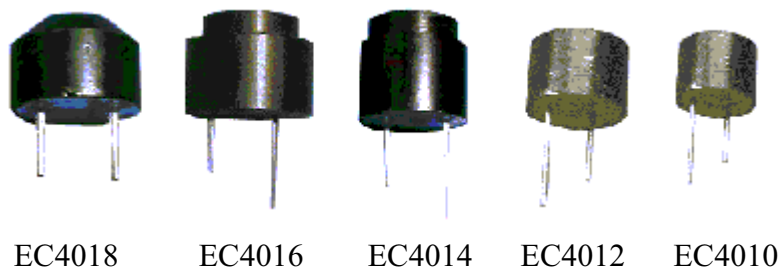
Part number meaning:

EC 40 18
(1) (2) (3)

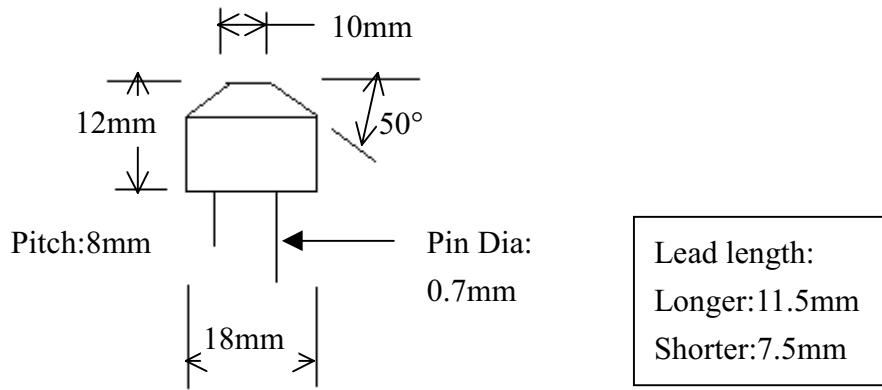
(1) EC: Enclose type (Water resistance) and Combine transmittre & receiver in one unit.

(2) 40: Center Frequency. (KHz)

(3) 10: Transducer diameter. (mm)

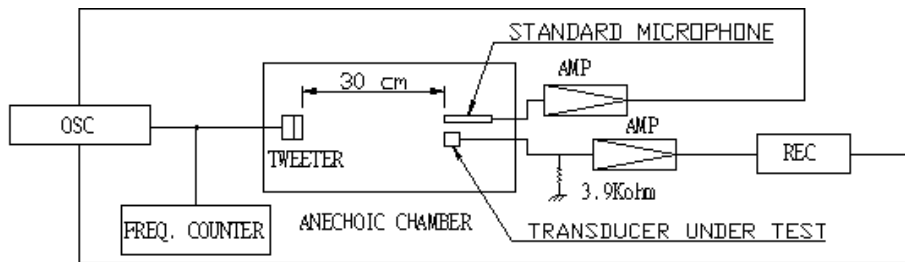


4. dimensions

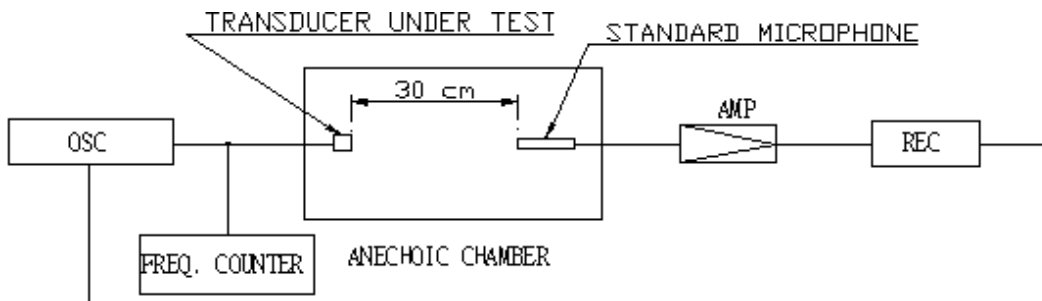


5. Test Circuits Diagram

a) Test Circuit Diagram for Receiving



b) Test Circuit Diagram for Transmitting



6. Environmental Characteristics

Item	Conditions	Variation of Sensitivity
Temperature Characteristics	-20~70°C	Within 10 dB
Humidity	40±2°C, 90 %RH, 2Hrs	Within 4 dB
Shock	50G impact Directions : 3 perpendicular directions Times : 3 times	Within 4 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 4 dB