

廣華電子材料有限公司

Kwang Hwa Elect. Material Co, Ltd.

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AIR ULTRASONIC TRANSDUCERS

MODEL: UTT4012/UTR4012

1. Features

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

2. Applications

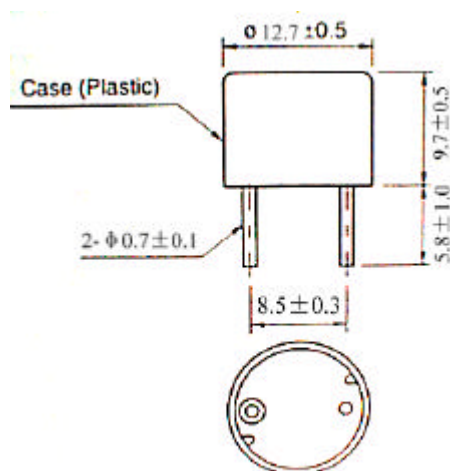
- Remote control of electronic appliance.
- Burglar alarm
- Level meter
- Sensor for counter



3. Ratings

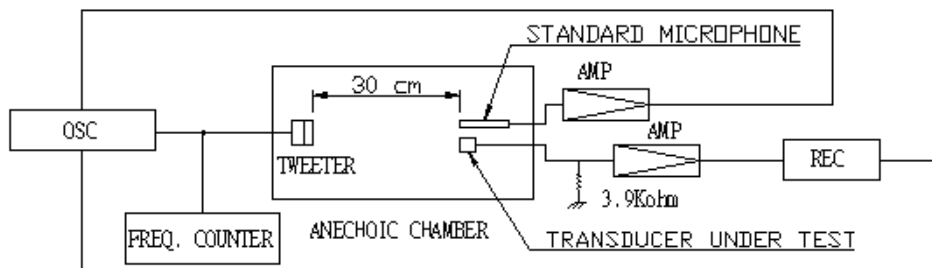
PARTS NUMBER	UTT4012	UTR4012
Center frequency (kHz)	40.0±1.0kHz	40.0±1.0kHz
Sound pressure level At 10V 30cm	110dB	-----
Sensitivity min.	-----	-70dB
Capacitance (pF)	2000±30%	2000±30%
Housing material/mesh color	Aluminum/black	Aluminum/black

4. dimensions:

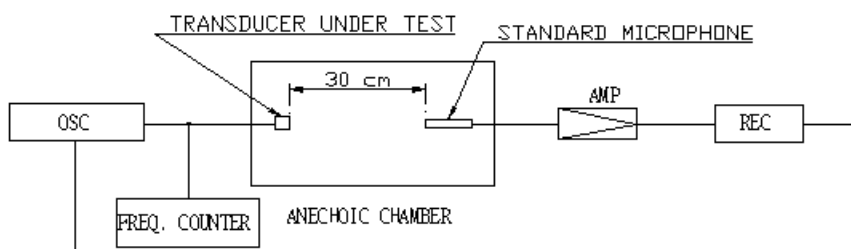


5. Test Circuits Diagram

a) Test Circuit Diagram for Receiving



b) Test Circuit Diagram for Transmitting



6. Environmental Characteristics

Item	Conditions	Variation of Sensitivity
Temperature Characteristics	-20~60°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