

# 廣華電子材料有限公司

## Kwang Hwa Elect. Material Co, Ltd.

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### AIR ULTRASONIC TRANSDUCERS

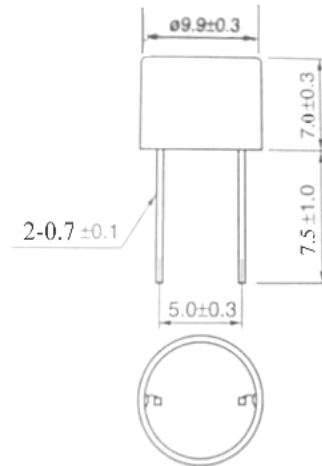
#### MODEL: Close type UTTR4010FS

##### 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

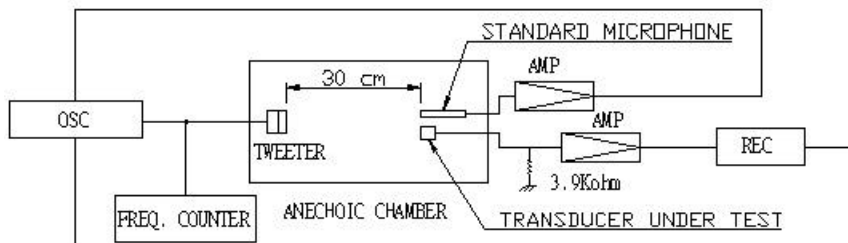


##### 3. Ratings

PARTS NUMBER	UTTR4010FS
Center frequency (kHz)	$40.0 \pm 1.0$ kHz
Sound pressure level	100 dB
Sensitivity min.	$\leq -76$ dB
Capacitance (pF)	$2000 \pm 30\%$
Operating Voltage	3 ~ 30 Vp-p
Sensitivity distance	Max. 2m
Case/mesh color	Aluminum/white

##### 4. Test Circuits Diagram

###### a) Test Circuit Diagram for Receiving

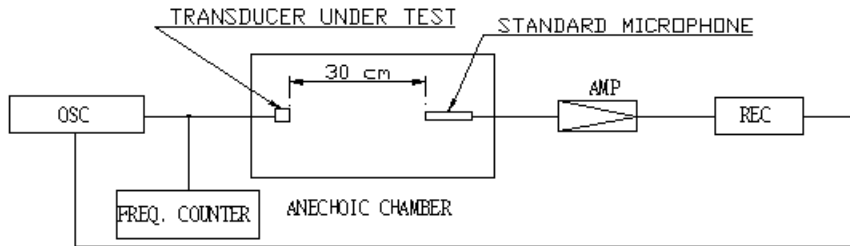


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### b) Test Circuit Diagram for Transmitting



### 5. 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