
SPECIFICATIONS SHEET FOR APPROVAL

ULTRASONIC SENSOR

P/N: UW1812ADAP-04

**DESCRIPTION: D18mm, H12mm Ultrasonic Sensor (dual mode),
40000Hz, 1800pF****VERSION: 02****DATE: 17-Sept-19****REVISIONS**

VERSION	DESCRIPTION	DATE
01	Released from engineering	20-Oct-12
02	Modify the pin length to 7 +/- 1mm and 10 +/- 1mm	17-Sept-19

APPROVED BY :

CUSTOMER NAME :**DATE :**

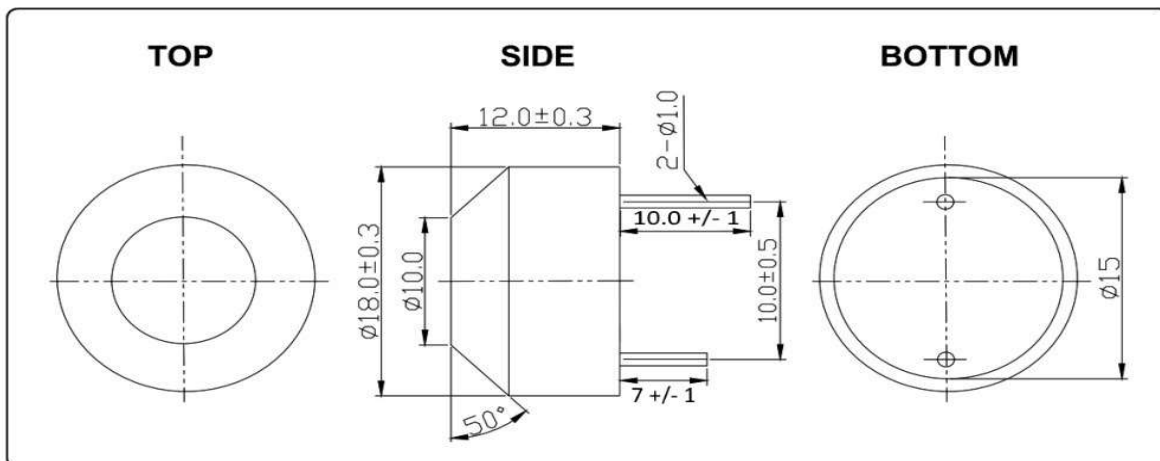
SPECIFICATIONS SHEET

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1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
CENTER FREQUENCY	40,000 ± 1,000	Hz
ECHO SENSITIVITY	≥230	mV
DECAY TIME	≤1.3	ms
DIRECTIVITY (deg)	80 ± 15	°
CAPACITANCE (at 25°C , 1kHz)	1,800 ± 15%	pF
MAX DRIVING VOLTAGE	140	Vp-p
FUNCTION	DUAL	-
OPERATING TEMPERATURE	-40 to +80	°C
STORAGE TEMPERATURE	-40 to +85	°C
HOUSING	Aluminum	-

2. DIMENSIONS (unit in mm)



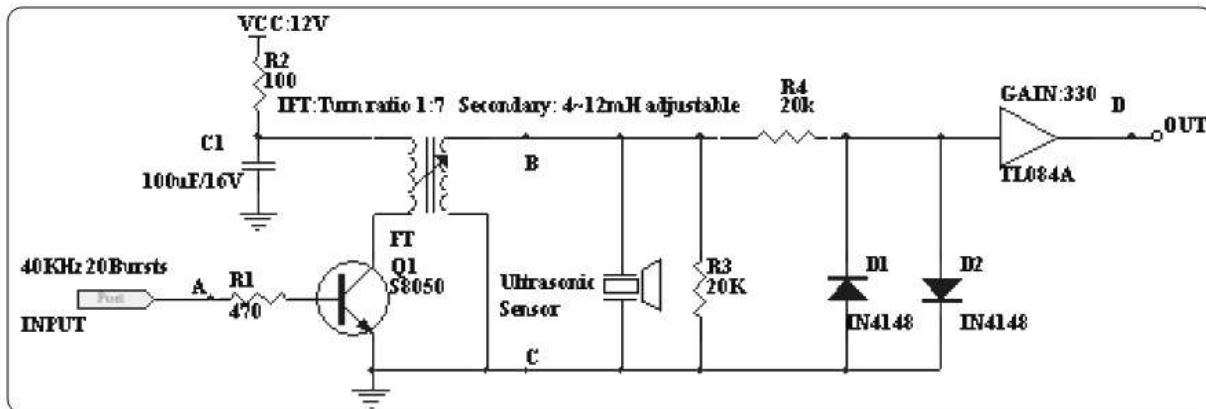
Tolerance: ± 0.5 mm except specified

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All specifications subject to change without notice

3. TESTING CIRCUIT



4. RELIABILITY TEST

Testing Criteria

All sensitivity should not be changed more than 30% after below tests.

(Recovery: 2 to 4 hrs of recovery under the standard condition after the removal from test chamber.)

1) Temperature Test

a) Exposure at +85°C for 96 hours then leave 3 hours in normal temperature and test the Specifications.

b) Exposure at -40°C for 96 hours then leave 3 hours in normal temperature and test the Specifications.

2) Humidity Test

Exposure at +40°C and 90%-95% relative humidity for 96 hours and leave 3 hours in normal temperature.

Then test the Specifications.

3) Vibration Test

Frequency: 10~55~10Hz Oct/min ,Amplitude: 1.5mm Duration: 2 hours in each 3 axes

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