



DEVETECH ELECTRONICS CO. LTD

**ULTRASONIC SENSOR
CUSTOMER: DACHS ELECTRONICA
P/N: DVZA1840H12ATR**



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CHECKED BY	
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CONTENTS		
N°	Contents	Page
1	Scope	3
2	Electrical specification	3
3	Soldering condition	3
4	Appearance drawing	4
5	Input voltage/ S.P.L Characteristics	4
6	Test circuit	5

1. Scope

This specification applies ultrasonic sensor diaphragm, DVZA1840H12ATR

2. Electrical specification

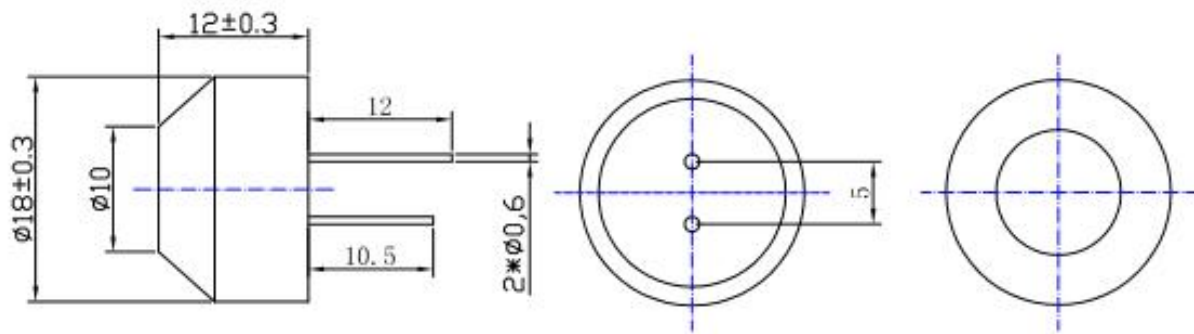
No	Item	Unit	Specification	
			DVZA1840H12ATR	Condition
1	Construction		Open structure type	
2	Using method		Transmitter receiver	
3	Center frequency	KHZ	40±1	
4	Free Capacitance	PF	2000±20%	at 1KHZ 1.0V
5	Min. Sound Pressure level	dB	≥90	10Vrms/10cm
6	Directivity	°	80°±15°(-6dB)	
7	Material		ALUMINUM	
8	Operating Temp.	°C	-25~+85	
9	Storage temp	°C	-40~+90	
10	Dimension	mm	18*12	See appearance drawing

3. Soldering condition

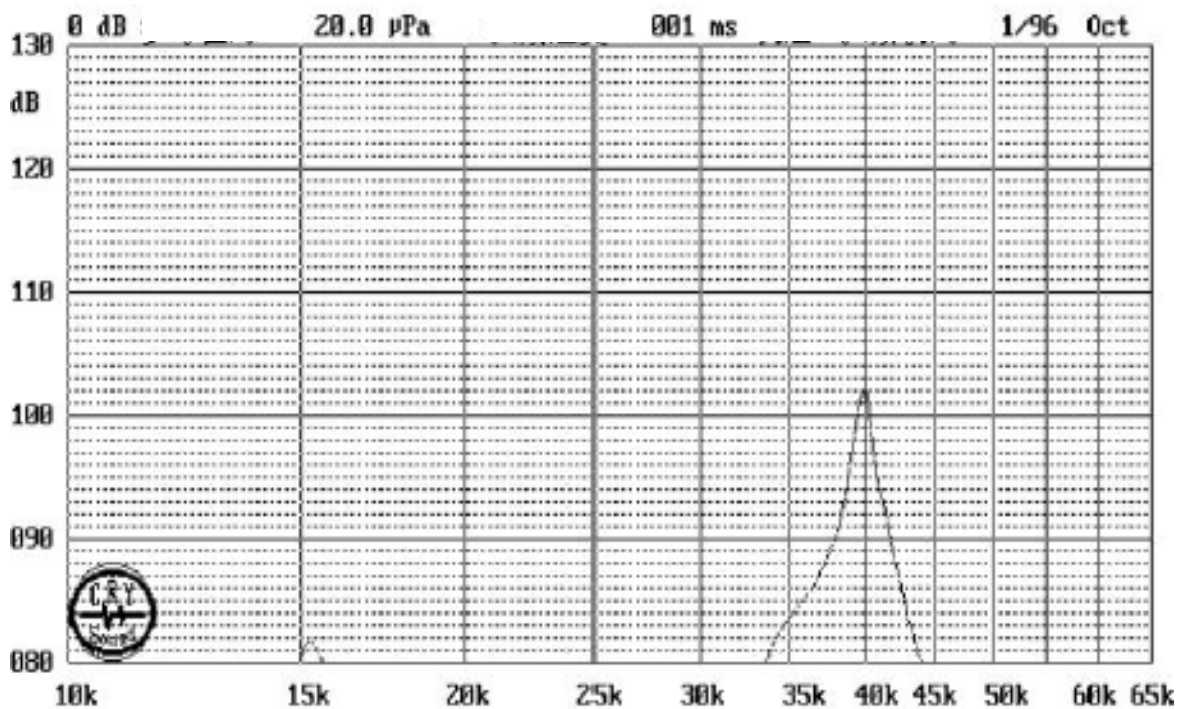
Soldering process	Soldering Parameter	
	Temp.(°C)	Time(Sec.)
Reflow soldering	255±5	
Wave soldering	255±5	3~4s
Manual soldering	320~350	2~3s
Remark: Instance Soldering Process		

4. Appearance drawing

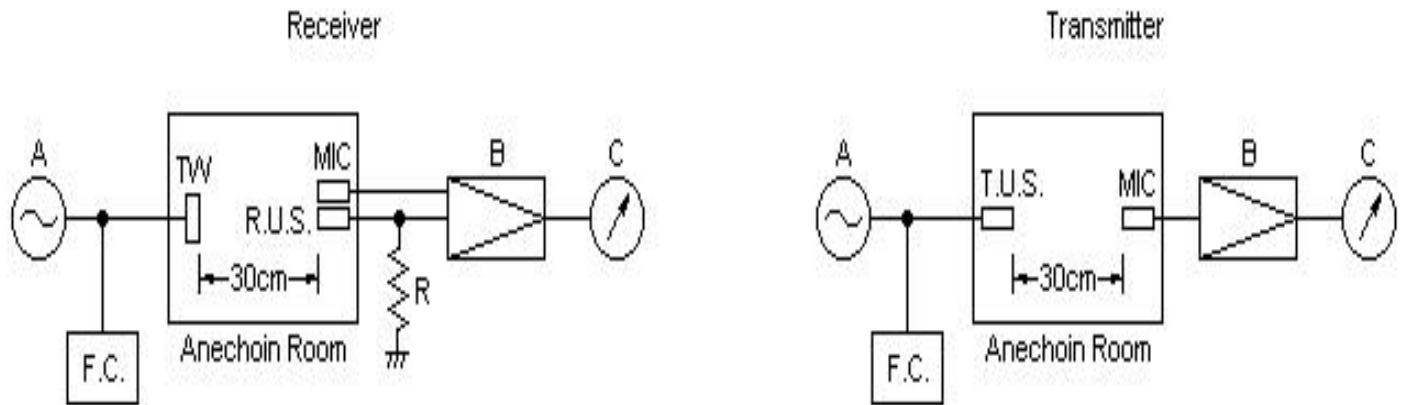
Unit: mm TOL : ±0.5



5. Input voltage/ S.P.L Characteristics



6. Test circuit



A: Oscillator B: Amplifier C: Voltmeter R: 3.9K MIC: Microphone TW: Tweeter R.U.S.: Receiver Ultrasonic Sensor T.U.S.: Transmitter Ultrasonic Sensor F.C.: Frequency Counter

NOTES

- This sensor is designed for use in air. Do not use this sensor in fluid.
- To prevent sensor malfunctions, operational failure or any deterioration of its characteristics, do not use his sensor in the following, or similar conditions.

- A. In strong shock or vibration.
 - B. In high temperature and humidity for a long time.
 - C. In corrosive gases or sea breeze.
 - D. In an atmosphere of organic solvents.
- In dirty and dusty environments that may contaminate the sensor front.



NOTES
