



MANORSHI MSO-P2F1640AH12T Ultrasonic Sensor Owner's Manual

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MANORSHI MSO-P2F1640AH12T Ultrasonic Sensor



Product Usage Instructions

To use the Ultrasonic Sensor, please follow these steps:

1. Connect the Ultrasonic Sensor to the appropriate power source using the provided pin material (FeCu Sn).
2. Ensure that the operating temperature is within the range of -20°C to $+80^{\circ}\text{C}$.
3. Place the Ultrasonic Sensor in the desired location, ensuring that it has a clear line of sight for detecting objects within its detectable range.
4. Refer to the mechanical drawing and beam pattern images for a visual representation of the Ultrasonic Sensor's design and detection capabilities.

If you have any further questions or need assistance, please contact our support team at Tel: 86-519-89185720 or E-mail: sales@manorshi.com.

DESCRIPTION

Ultrasonic Sensor

- **MODEL:** MSO-P2F1640AH12T

FEATURES

- Transmitter: "40T" mark on housing
- Compact and light weight.
- High sensitivity and sound pressure
- Less power consumption
- High reliability

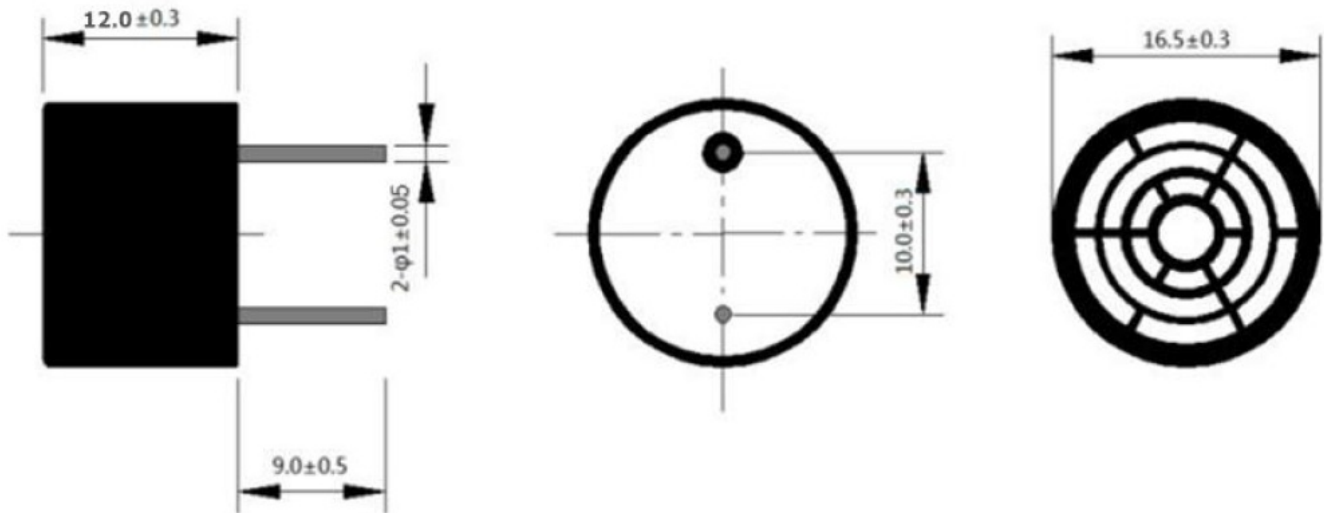
SPECIFICATIONS

- Item Value
- Using method Transmitter

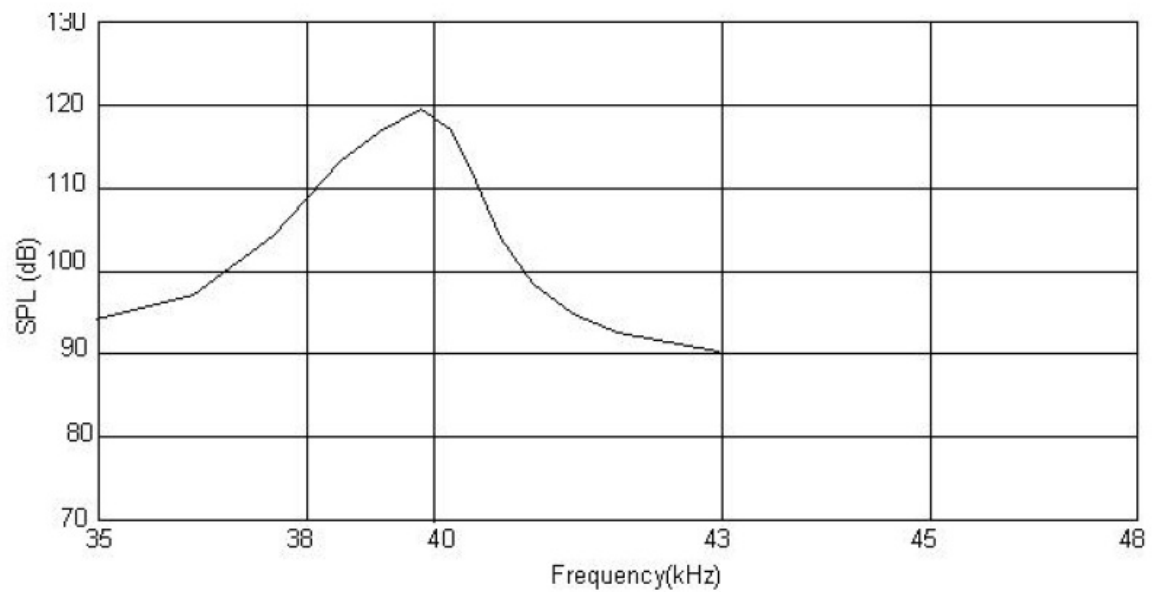
- Center frequency $40 \pm 1.0 \text{ KHz}$
- Sound pressure level $\geq 115 \text{ dB}$
- Capacitance $2200 \pm 25\% \text{ pF}$ at 1 KHz
- Directivity $80^\circ \pm 15^\circ -6 \text{ dB}$
- Maximum input voltage 60 Vp-p
- Detectable range $0-1200 \text{ cm}$
- Housing material Plastic
- Operating Temperature $-20 +80^\circ \text{ C}$
- Storage Temperature $-20 +80^\circ \text{ C}$
- Pin material Fe Cu
- Surface coating Sn

MECHANICAL DRAWING

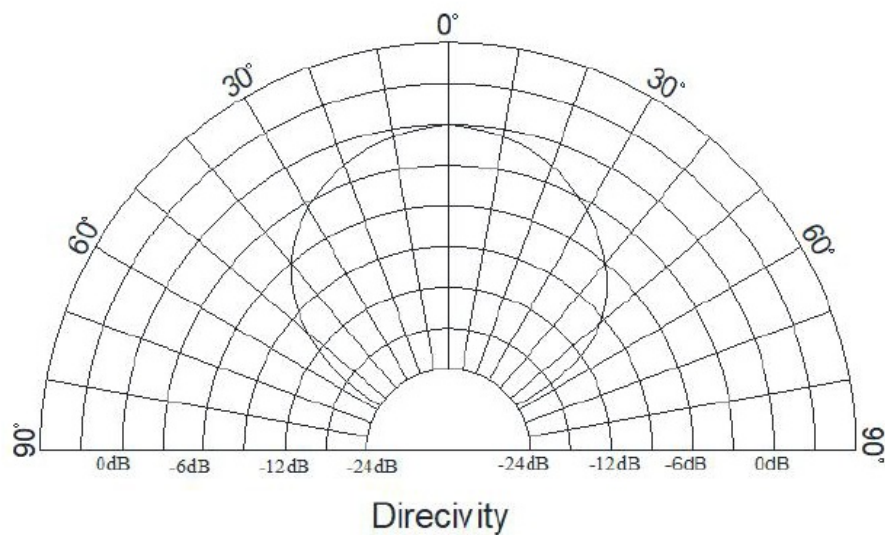
units:mm



BEAM PATTERN

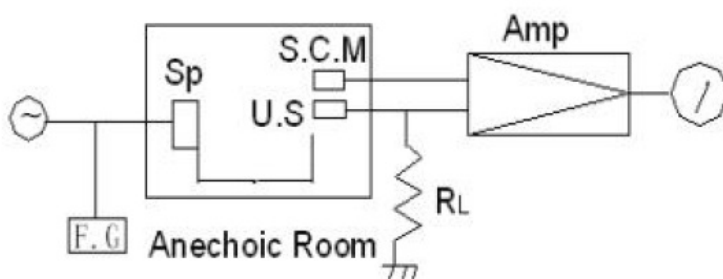


SPL-Frequency Characteristics



Directivity

TEST CIRCUIT Receiver



RL: $3.9K\Omega$

U.S :Ultrasonic Sensor

S.C.M:Standard Cappacitor Microphone

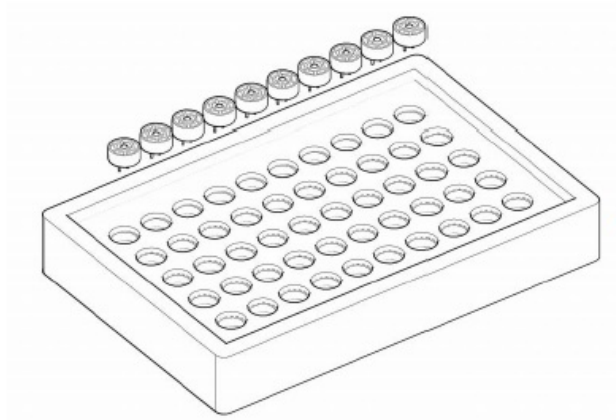
Amp. :Ampifier

OSC. :Oscillator

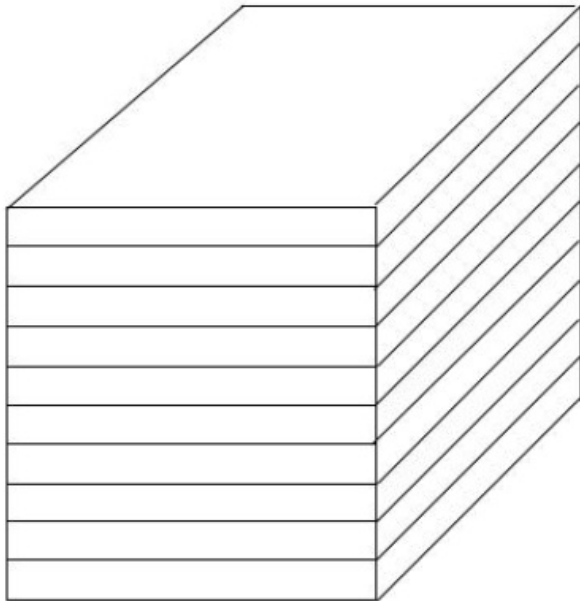
Sp :Tweeter

F.C :Frequency Counter

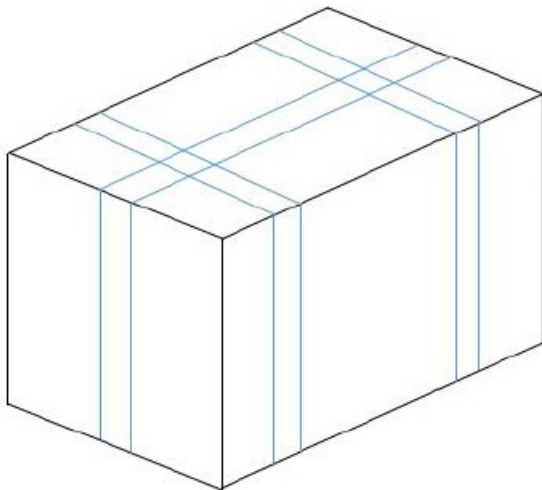
PACKAGING DETAILS



50PCS/BOX
BOX SIZE:23.5*13.5*3CM



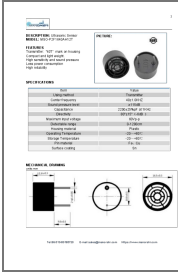
10BOXES/STACK, TOTAL 500PCS
STACK SIZE:23.5*13.5*27.5CM



2000PCS/CARTON
CARTON SIZE:47.5*28.5*32CM

Tel:86-519-89185720

E-mail: sales@manorshi.com <https://www.manorshi.com>



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MSO-P2F1640AH12T Ultrasonic Sensor, MSO-P2F1640AH12T, Ultrasonic Sensor, Sensor

References

- [Leading SMD Buzzer, Ultrasonic sensor Manufacturer - Manorshi](#)