



Specification

Customer	Micros sp.j. W. Kedra i J. Lic
Part No	FBULS1007A(T/R)
Customer Part No	T/R4010FBA
Issue Date	06/08/2011

Approval items:

- A, Scope
- B, Characteristics
- C, Technical terms
- D, Drawing
- E, Beam Pattern
- F, Test Circuit

A. Scope

This specification applies ultrasonic sensor T/R4010FBA

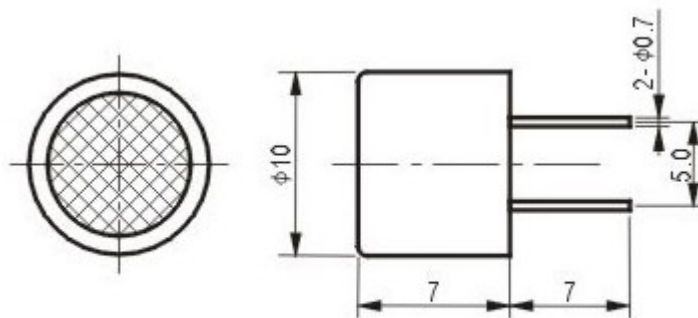
B. Characteristics

- 1) Open structure and dual use
- 2) Compact and light weight
- 3) High sensitivity and sound pressure
- 4) Less power consumption
- 5) High reliability
- 6) RoHS compliance

C. Technical terms

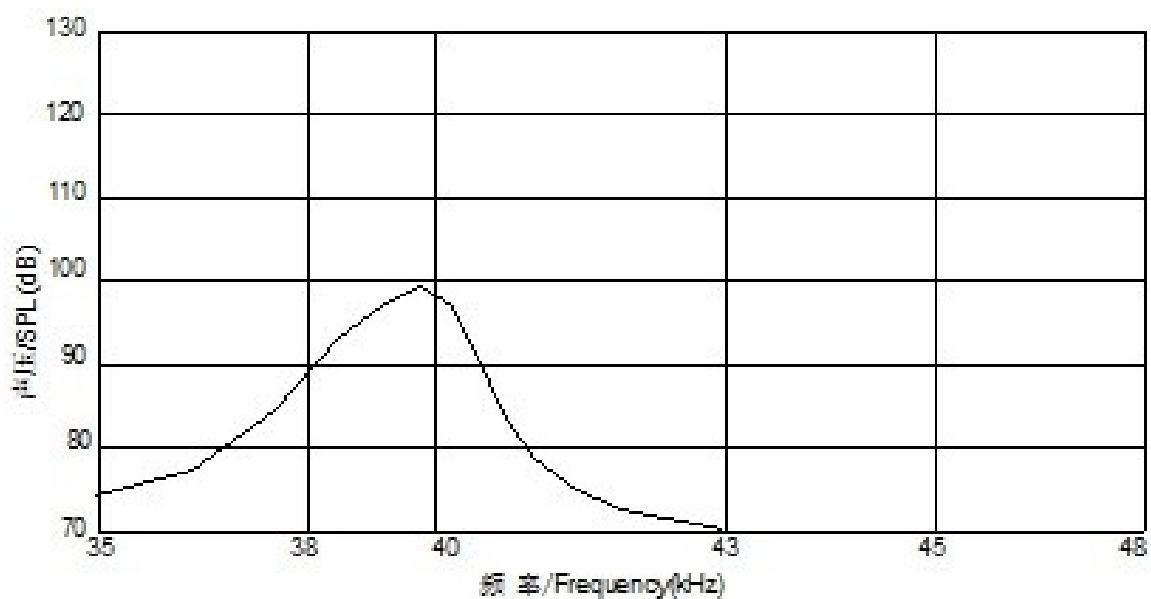
No.	Item	Unit	Specification
1	Construction		Open
2	Using method		dual
3	Nominal Frequency	Hz	40k
4	Sensitivity	dBV/ μ Bar	≥ -70
5	S P L	dB	≥ 100 (10V/30cm/sine wave)
6	Directivity	deg	50
7	Capacitance	pF	2550 \pm 30%@1KHz
8	Detectable range	m	0.3...3
9	Operating Temperature	$^{\circ}$ C	-20....+70
10	Housing material		Al
11	Weight	g	1

D .Drawing

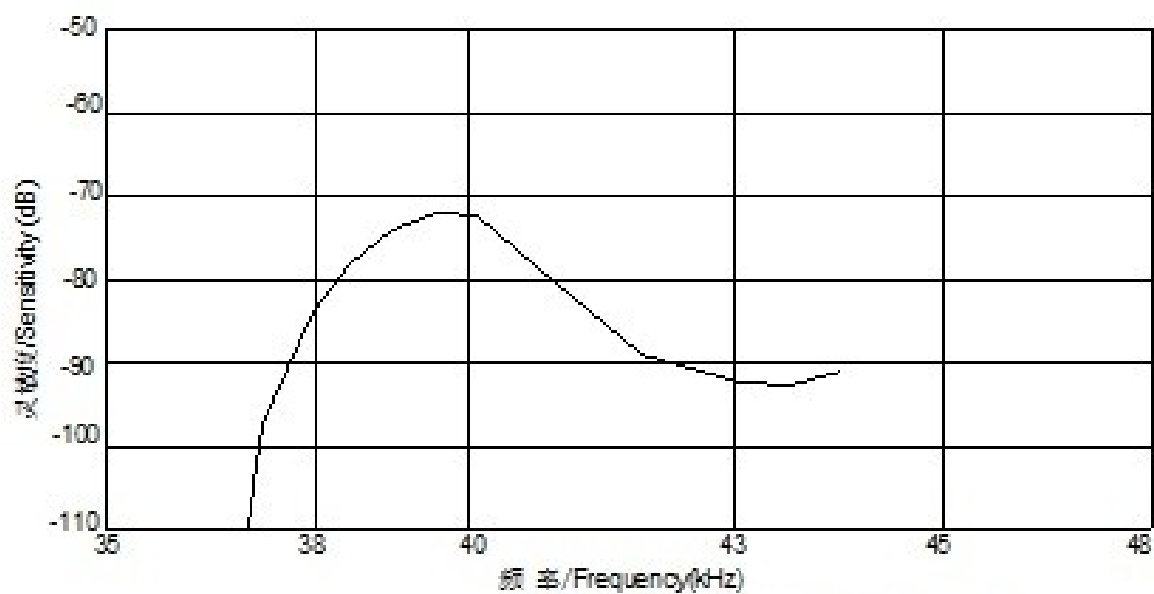


unit:mm

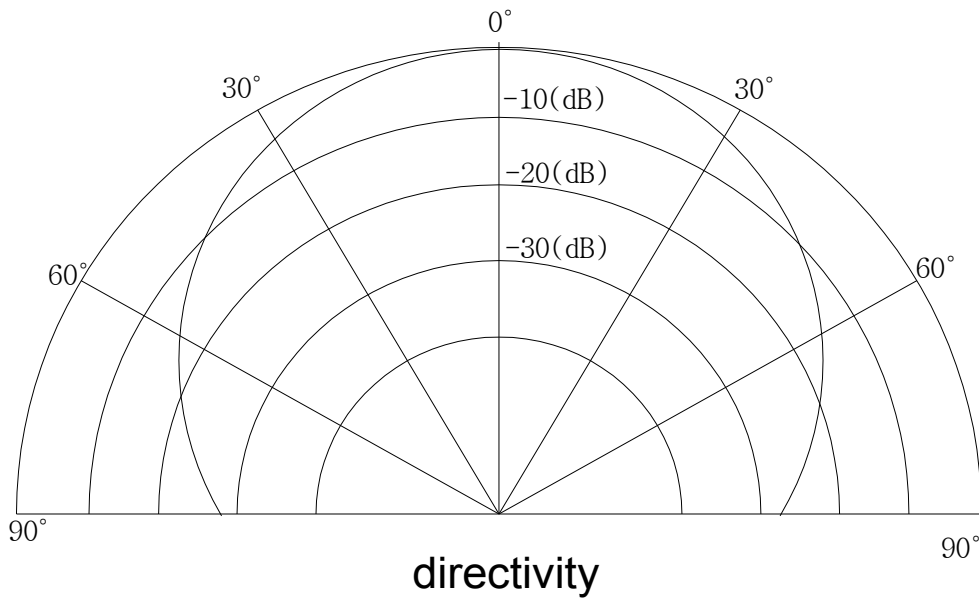
E. Beam Patten



声压-频率特性图/SPL-Frequency Characteristics

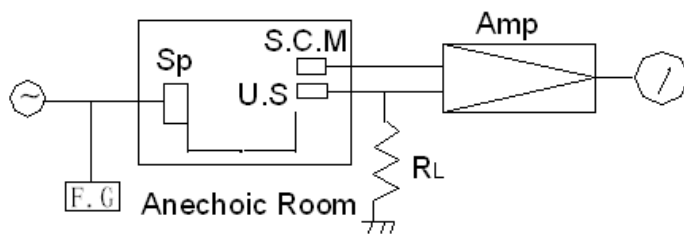


灵敏度-频率特性图/SPL-Frequency Characteristics



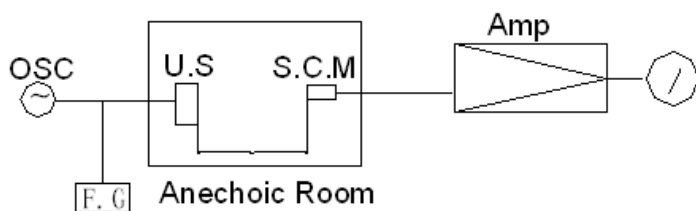
F. Test Circuit

Receiver



RL: $3.9K\Omega$
 U.S : Ultrasonic Sensor
 S.C.M: Standard Cappable Microphone
 Amp. : Amplifier
 OSC. : Oscillator
 Sp : Tweeter
 F.C : Frequency Counter

Transmitter



U.S : Ultrasonic Sensor
 S.C.M: Standard Cappable Microphone
 Amp. : Amplifier
 Input voltage: $10V_{rms}$
 F.C : Frequency Counter