



深圳市兴华鑫电子科技有限公司

Shenzhen xinghuaxin Electronic Technology Co., Ltd

承認書

SPECIFICATION FOR APPROVAL

客戶 (Customer):

客戶料號 (Customer P/N):

興華鑫型號 (Supplier P/N):

XHxDZ-1640AOH12TR

產品名稱 (Description):

传感器 (Ultrasonic sensor)

產品規格 (Specification):

16*12MM 40KHz

客戶承認欄 (Customer Authorization Signature)	深圳市興華鑫電子科技有限公司 承認欄 (Supplier Audit)		
	審核	檢查	制作
	唐国兴	唐玉来	吴银娟
	日期: 2022 年 04 月 19 日 版次: A		

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产品规格内容

A. Scope

This specification applies Ultrasonic sensor XHXDZ-1640AOH12TR

B. Characteristic

- 1.1) Open structure and separate use
- 1.2) Compact and light weight
- 1.3) High sensitivity and sound pressure
- 1.4) Less power consumption
- 1.5) High reliability

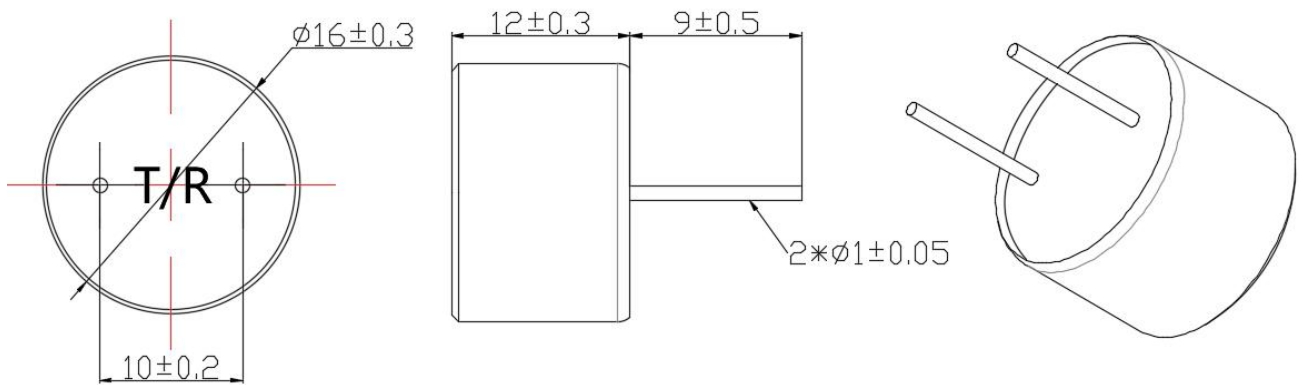
C. Technical terms

No.	Item	Unit	Specification
1	Construction		Open
2	Using method		Transmitter/Receiver
3	Nominal Frequency	Hz	$40\pm 1K$
4	Sensitivity		$\geq -68V/u\text{ Mbar}$
5	S P L	dB	$\geq 115(10V/30cm/sine\ wave)$
6	Directivity	Deg	65 max
7	Capacitance	pF	$2400\pm 25\% @ 1KHz$
8	Allowable input voltage	Vp-p	120(40KHz)
9	Operating Temperature	℃	-20....+70
10	Housing material		AL
11	Weight	g	5 ± 1

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产品规格内容

D .Drawing



Tolerance general unless otherwise specified: $\pm 0.5\text{mm}$

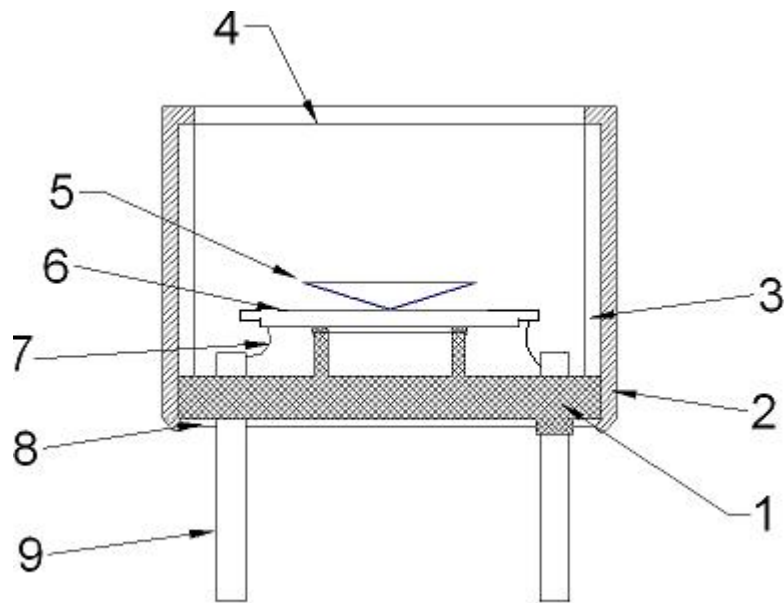
unit: mm



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产品规格内容

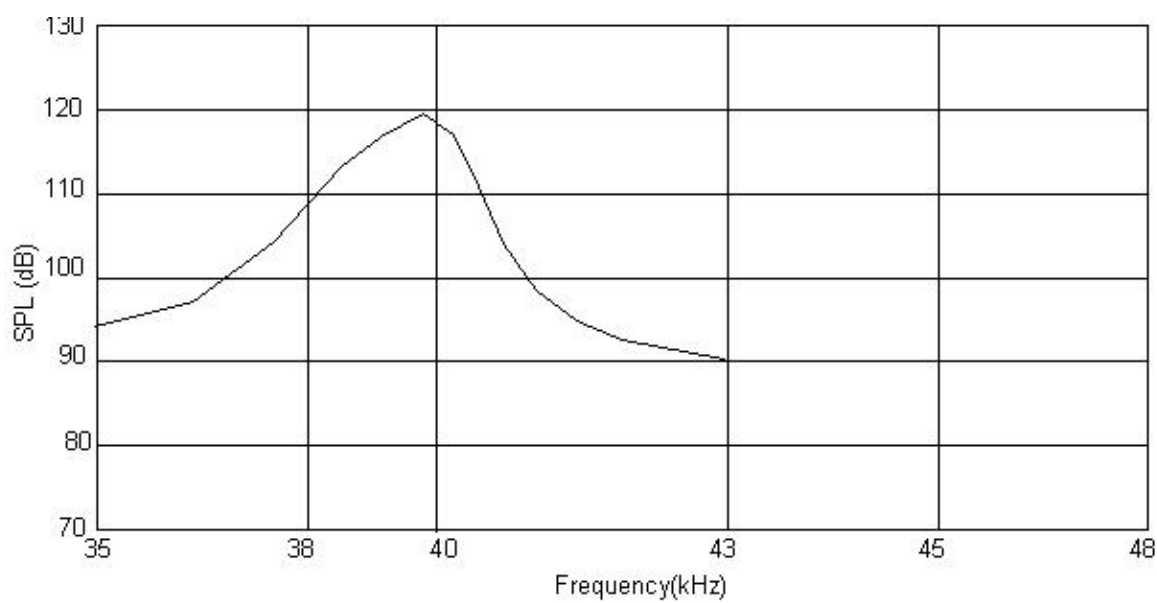
E. BOM (Bill of material)



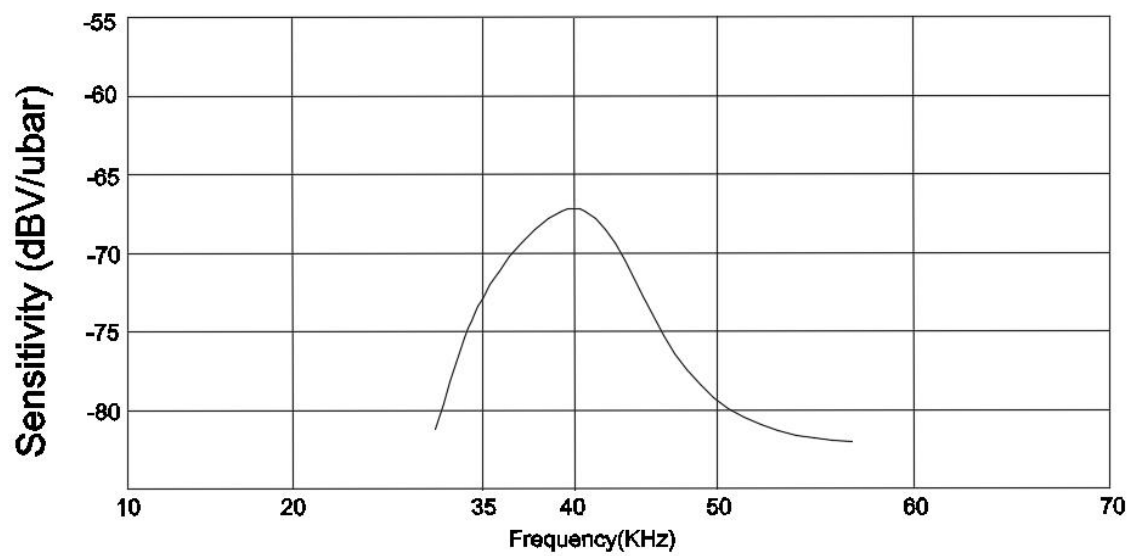
BOM

NO	Part. No	Q'TY
1	Plastic part	1
2	Housing outside	1
3	Inner housing	1
4	Black mesh	1
5	diaphragm	1
6	piezo ceramic	1
7	wire	2
8	metal plate	1
9	pin	2
ROHS COMPLIANT		

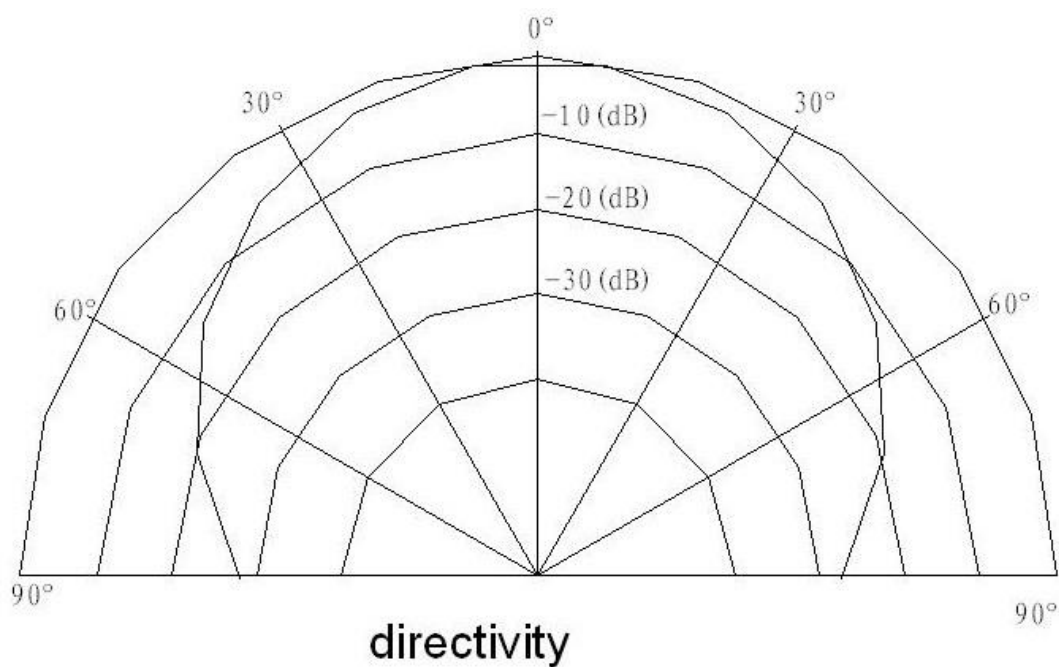
F. Beam Pattern



SPL-Frequency Characteristics



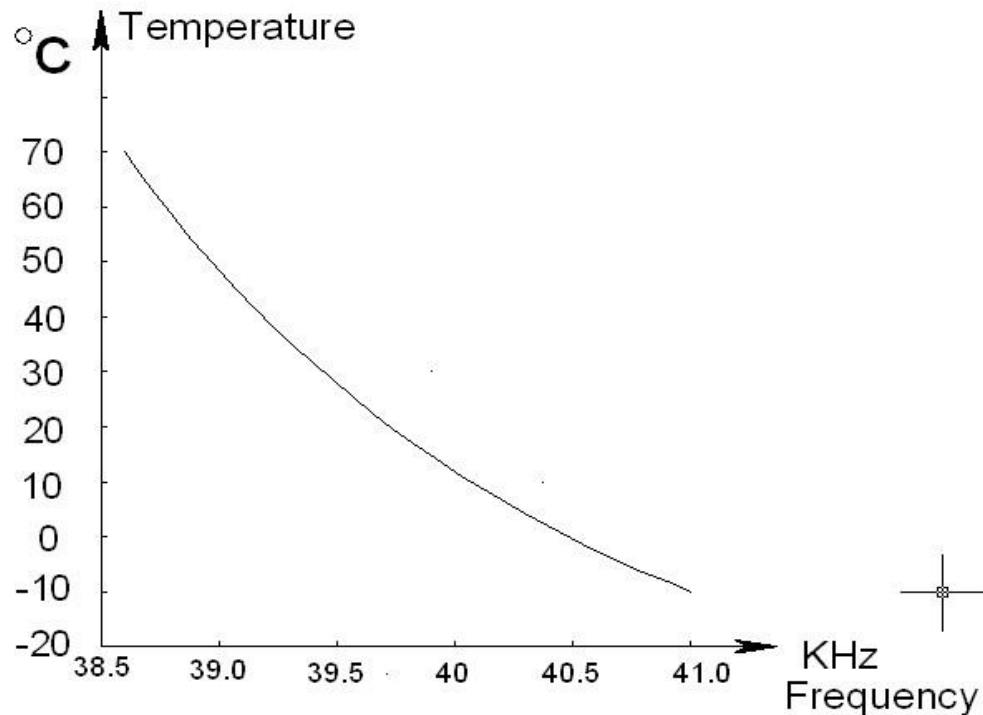
Sensitivity - Frequency Characteristics



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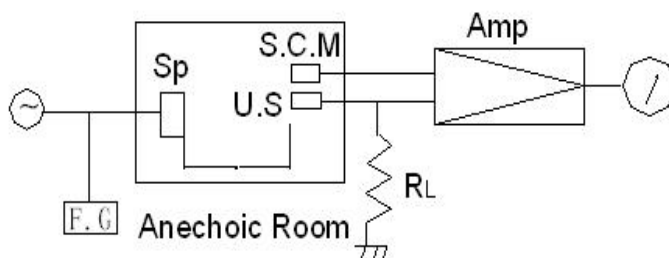
产品规格内容

G. Temperature & Frequency Curve



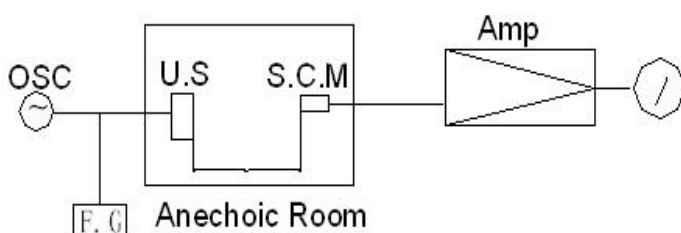
H. Test Circuit

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:10Vrms
F.C :Frequency Counter