

# 10 mm 40KHZ 10mm ultrasonic sensor probe 40KHz receiving

**Produktkode:** 940aa

**Tilgjengelighet:** 5

**Lager :** S164

**Pris: kr. 30,00**

## **Short Description**

10mm 40KHZ 10mm ultrasonic sensor probe 40KHz receiving split black metal shell ranging

## **Beskrivelse**

## **Description**

### [Report Item](#)

10pcs 10mm 40KHZ10mm ultrasonic sensor probe 40KHz receiving and transmitting split black metal shell

T represents emission. R represents reception.

The black circle on the pin is positive, and the other one is negative when connected to the casing

10MM size: 10MM long, 7MM high, with a distance of 5MM between the legs

**baochengtech Store**

## **Ultrasonic sensor probe**

**10mm Black 40KHz**



**Receive**



**Transmit**

**Transmission and reception split**

**Brand New Authentic**

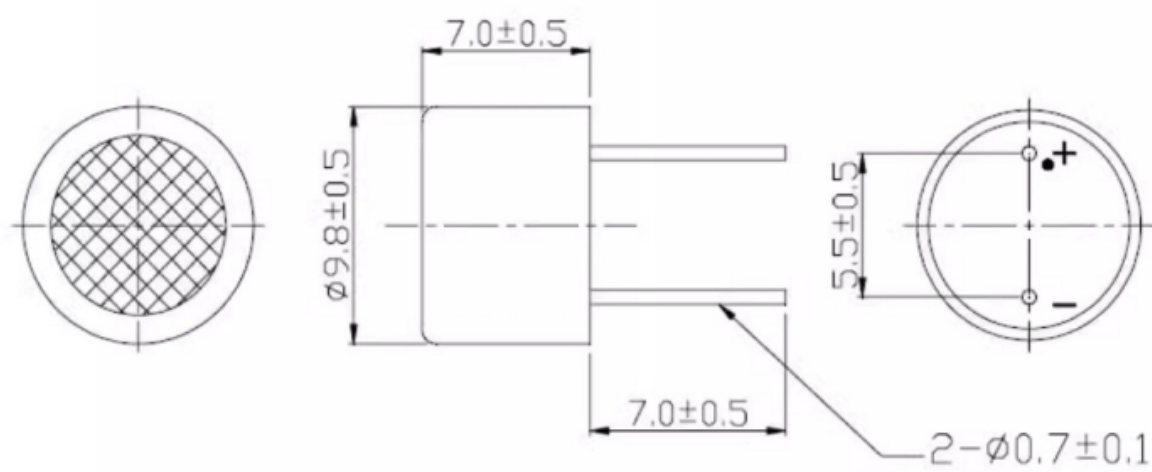
规格参数：

SPECIFICATIONS规格：

ITEM项目	T40-10Q	R40-10Q
Center frequency中心频率（KHz）	40.0±1KHz	40.0±1KHz
Sound Pressure Level声压（dB）0dB=0.0002 μ bar	≥108dB	-----
Sensitivity灵敏度（dB）0dB=1volt/ μ bar	-----	≥-67dB
Bandwidth带宽（dB）	2.0KHz	2.0KHz
Beam Angle指向角 -6dB	80°±15°	
Capacitance静电容量（pF）	2200±20%pF	
Color颜色	Black	
Max. Driving Voltage最大驱动电压(RMS)	40Vrms	
Working Temperature工作温度(℃)	-20 to +70℃	
Storage Temperature贮存温度(℃)	-40 to +85℃	

Note: "T" for Transmitter "R" for Receiver

尺寸：



Asymmetric Beam Patterns

Temperature Compensated

## Specification

Transceiver

**Center Frequency**

$40.0 \pm 1.0 \text{ KHz}$

**Bandwidth (-6dB) F.O.M.**

1.2KHz

**Transmitting sound Pressure Level**

105dB min.

at resonant frequency; 0dB  
re  $0.0002 \mu \text{ bar}$  per 10Vrms at  
30cm

**Receiving Sensitivity**

-73dB min.

at resonant frequency 0dB=1  
volt/ $\mu \text{ bar}$

**Nominal Impedance (Ohm)**

1000

**Ringin** (measured with  
rubber holder as per figure  
on next page)

1.5ms max.

**Capacitance at 1KHz**  $\pm 25\%$

2000pF

**Max. Driving Voltage** (pulse  
width 0.5ms interval 50ms)

80Vp-p

**Total Beam Angle -6dB**

$80^\circ \pm 12^\circ$

**Operation Temperature**

-30 to  $80^\circ \text{C}$

**Storage Temperature**

-40 to  $85^\circ \text{C}$

All specification taken typical at  $25^\circ \text{C}$

Both lead pins and lead wires output are available

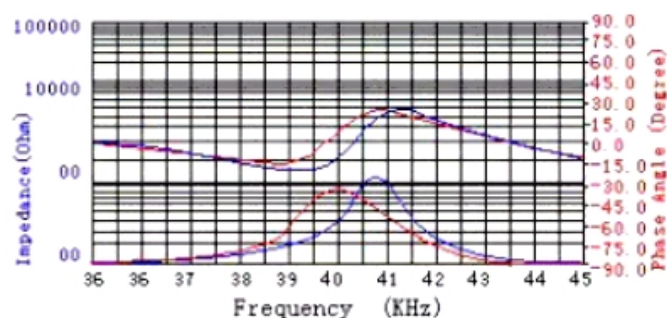
Temperature compensated type is optional Upon  
request

Model available:

TR4010HC-1	Plastic Housing
TR4010HC-2	Aluminum Housing
TR4010HC-3	Black Al- Housing

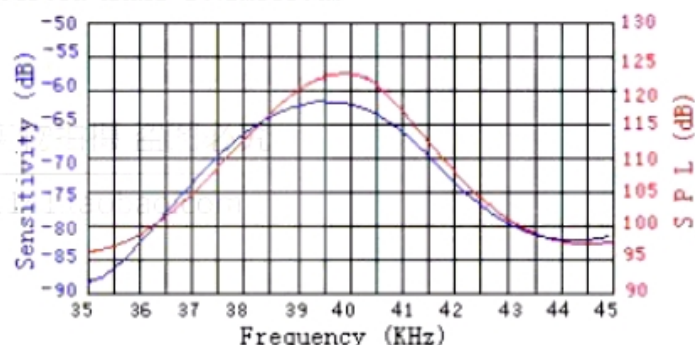
## Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level



## Sensitivity/Sound Pressure Level

Tested under 10Vrms@30cm



**Beam Angle:** Tested at 40.0KHz frequency

