

## Product specifications

### 1、 Product model: ISU200-16.7TRBJ [View Details](#)

1.1 Structure type: waterproof and airtight products;

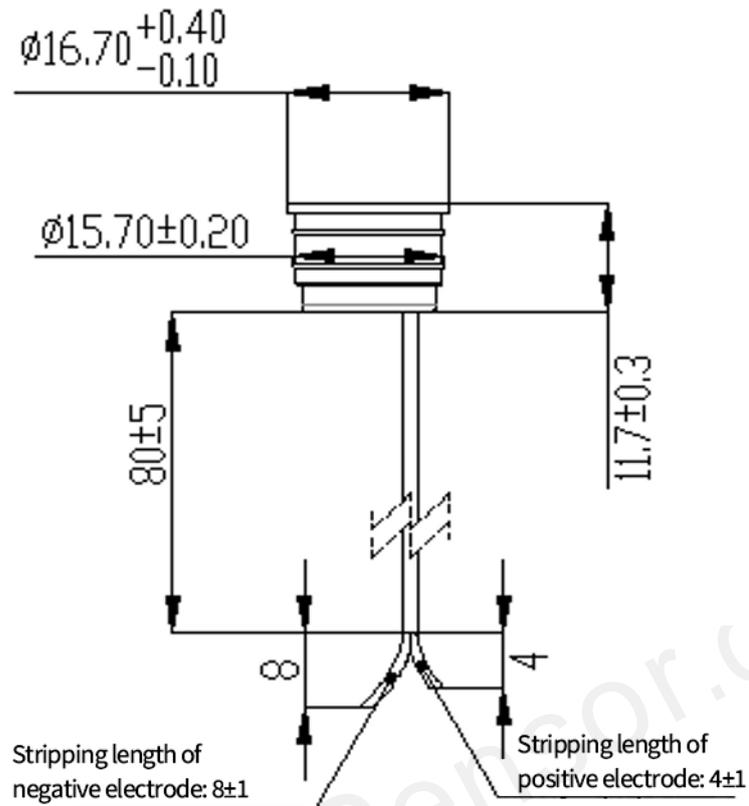
1.2 Usage type: transceiver integrated;

1.3 Scope of application: double-sheet detection, ultrasc

1.4 Product advantages: This product has the advantages of frequency bandwidth, high sensitivity, good signal-to-noise ratio, simple structure, reliable operation and light weight.



### 2、 Dimensions



### 3、Performance parameters

#### 3.1 Technical parameter standards:

No.	Inspection items	Test conditions	Test Standards	Note:
1	Center Frequency (KHZ)	Normal temperature $25 \pm 3$ ( $^{\circ}\text{C}$ )	$200 \pm 20$	Frequency scanner
2	Aftershock (US)	Normal temperature $25 \pm 3$ ( $^{\circ}\text{C}$ ), simulated test motherboard	$\leq 270$	Motherboard number: KM/K067200001
3	Echo Sensitivity (mv)	Normal temperature $25 \pm 3$ ( $^{\circ}\text{C}$ ), distance: the end face of the transducer is aligned with the	$\geq 800$ (Comparison Sample Test)	Motherboard number: KM/K067200001

		center of the PVC pipe and 10cm apart, and the target is a $\Phi$ 25mm smooth PVC pipe		
4	Maximum Drive Voltage (Vp-p)	Pulse width 0.8ms with 60ms interval	400	Oscilloscope Reference value
5	Operating Temperature (°C)	-40 ~ +70(°C)	Qualified	High and low temperature chambers
6	Storage Temperature (°C)	-40 ~ +70(°C)	Qualified	High and low temperature chambers

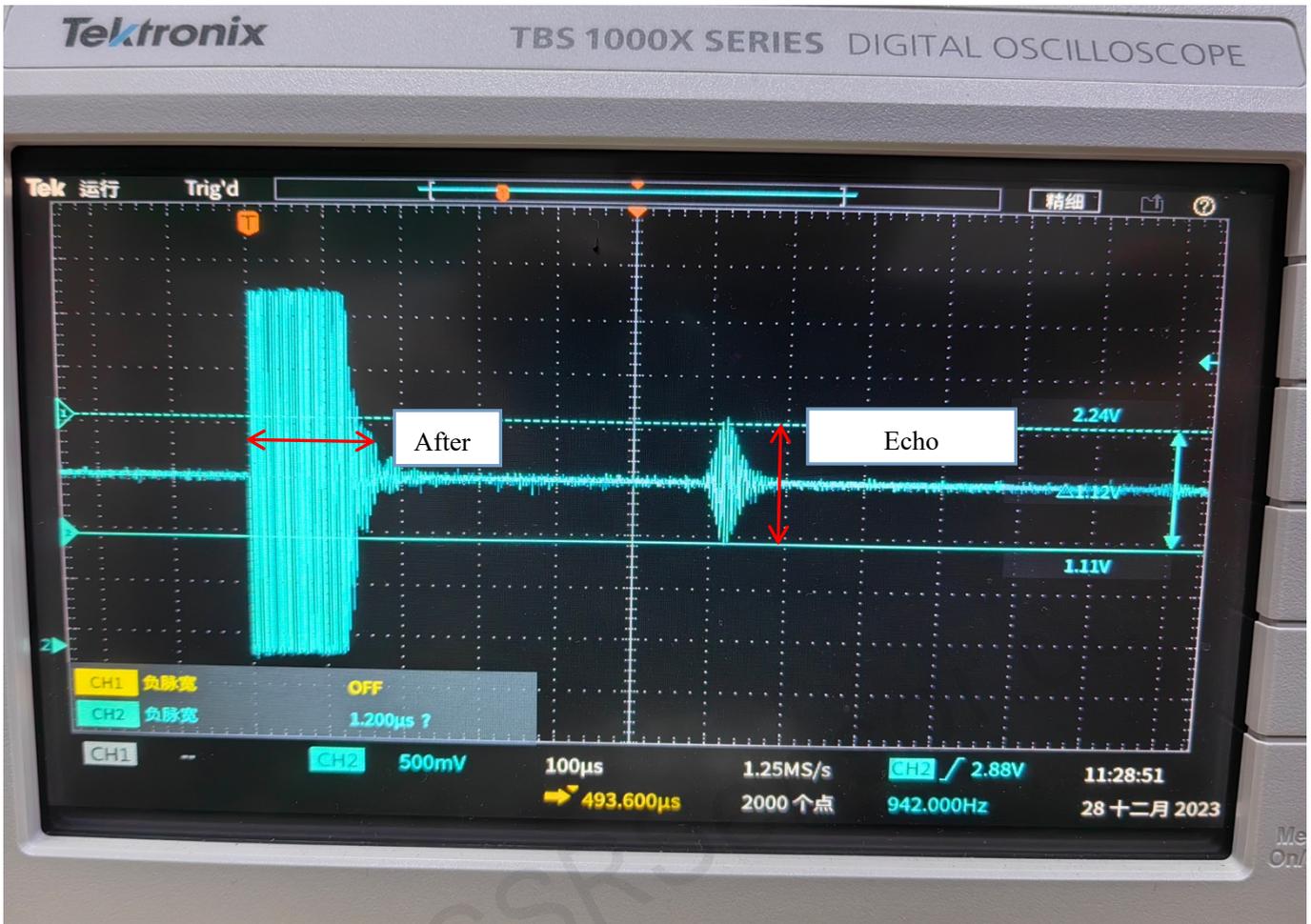
### 3.2 Environmental characteristics

No.	Test items	Test conditions	Test Standards	frequency
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1	Temperature characteristics	<p>The product needs to be tested in a short circuit state; The ambient temperature is stable at <math>-40\pm 3(^{\circ}\text{C})</math> for 30 minutes, and the temperature is stable for 30 minutes at <math>25\pm 3(^{\circ}\text{C})</math> (normal temperature), and 30 minutes at <math>+70\pm 3(^{\circ}\text{C})</math>. The tests are completed within 2 minutes of taking out the test chamber</p>	<p>At the center frequency, the return sensitivity changes by no more than 30% compared to the initial value in these three temperature ranges</p>	Once a year
2	Damp-heat test	<p>The product needs to be tested in a short circuit state;            Temperature: <math>60\pm 2^{\circ}\text{C}</math>;            Humidity: RH 90~95%;            Duration: 100 hours;            After removal, it was restored at normal atmospheric pressure for 2 hours</p>	<p>At the center frequency, the echo sensitivity changes by no more than 30% compared to the initial value</p>	Once a year
3	High temperature test	<p>The product needs to be tested in a short circuit state;            Leave at a high temperature of <math>+70\pm 3 (^{\circ}\text{C})</math> for 120 hours;            After removal, it was restored at normal atmospheric pressure for 2 hours</p>	<p>At the center frequency, the echo sensitivity changes by no more than 30% compared to the initial value</p>	Once a year

4	Low temperature test	<p>The product needs to be tested in a short circuit state;</p> <p>Leave at a low temperature of <math>-40\pm 3</math> (<math>^{\circ}</math>C) for 120 hours;</p> <p>After removal, it was restored at normal atmospheric pressure for 2 hours</p>	<p>At the center frequency, the echo sensitivity changes by no more than 30% compared to the initial value</p>	Once a year
5	Drop test	<p>Height: 1m height free fall to the concrete floor, times: 10 times</p>	<p>At the center frequency, the echo sensitivity changes by no more than 30% compared to the initial value</p>	Once a year
<p>Note: Each test is a separate test, and the test product is not less than 5PCS. Normal temperature conditions <math>T=25\pm 3^{\circ}</math>C, <math>H=45\sim 65\%</math>R.H.</p>				

### 3.3 Waveform diagram



Test waveforms

#### 4. Order specifications

ISU 200 - 16.7 TR B J - T1

Company Code Center Frequency Probe Outer Diameter Transceiver Integrated Silicone Sleeve Shape Wire Serial Number