

**MODEL:** CUSA-TR80-15-2000-TH | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

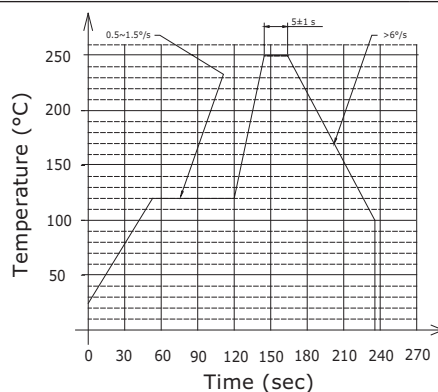
- aluminium can
- open type
- combination unit: receiver & transmitter
- sensitivity -75 dBV
- detectable range 15 meters

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
type	transmitter/receiver				
operating voltage	at 39 kHz			80	Vp-p
frequency		38	39	40	kHz
sensitivity		-75			dBV/ $\mu$ Mbar
sound pressure level	at 10 V, 30 cm, sine wave	105			dB
directivity			80		degree
capacitance	at 1 kHz	1,500	2,000	2,500	pF
detectable range		0.2		15	m
response time				1.6	ms
dimensions	$\varnothing 9.8 \times 7.0$				mm
material	aluminum				
terminal	pins (iron with tin plating)				
weight			0.74		g
operating temperature		-20		80	$^{\circ}$ C
RoHS	yes				

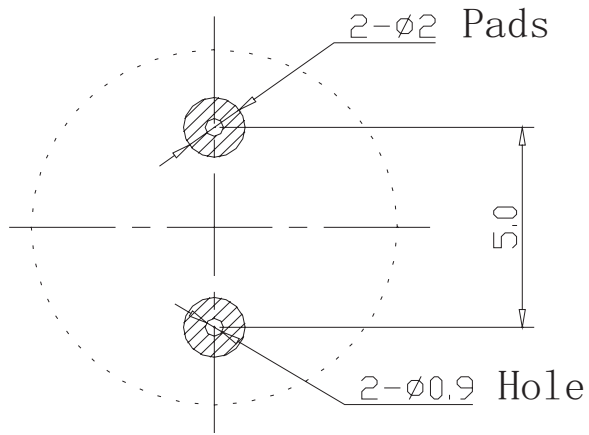
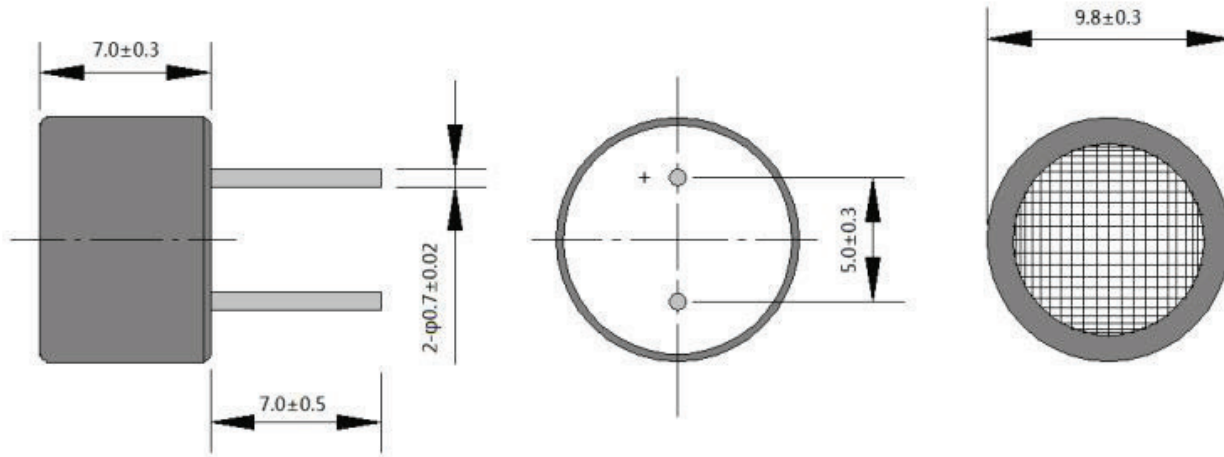
**SOLDERABILITY**

parameter	conditions/description	min	typ	max	units
wave soldering				250	$^{\circ}$ C



## MECHANICAL DRAWING

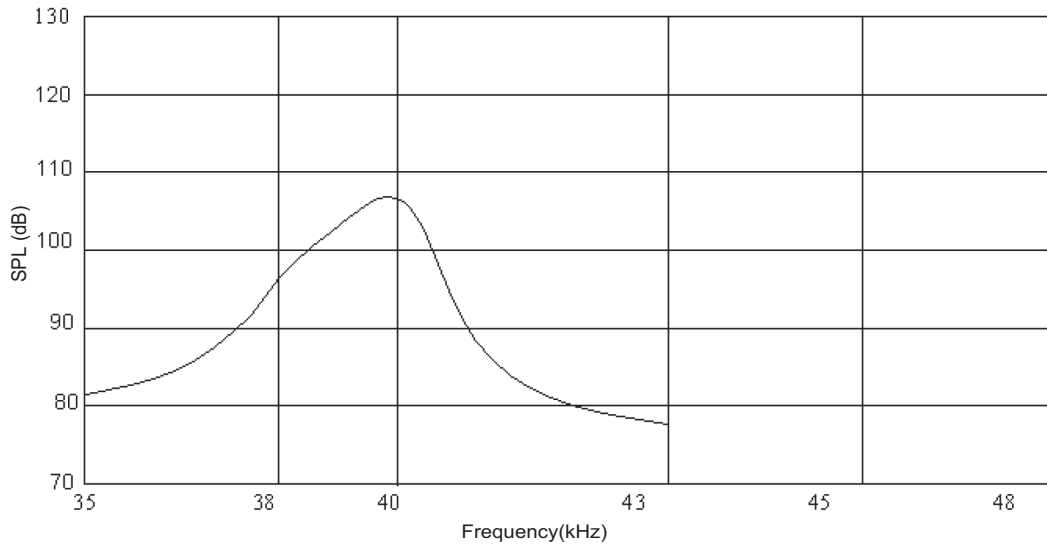
units: mm



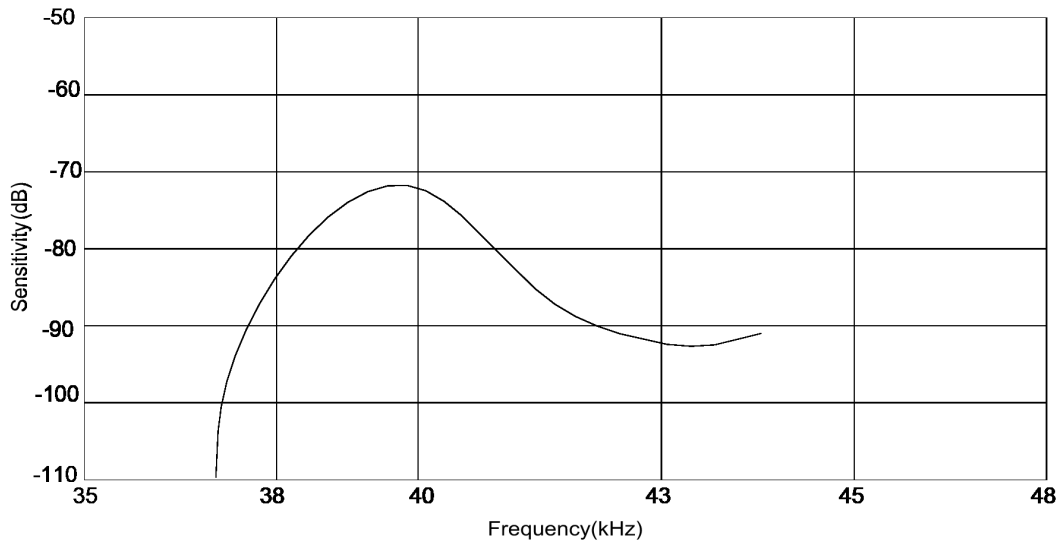
Recommended PCB Layout  
Top View

## BEAM PATTERNS

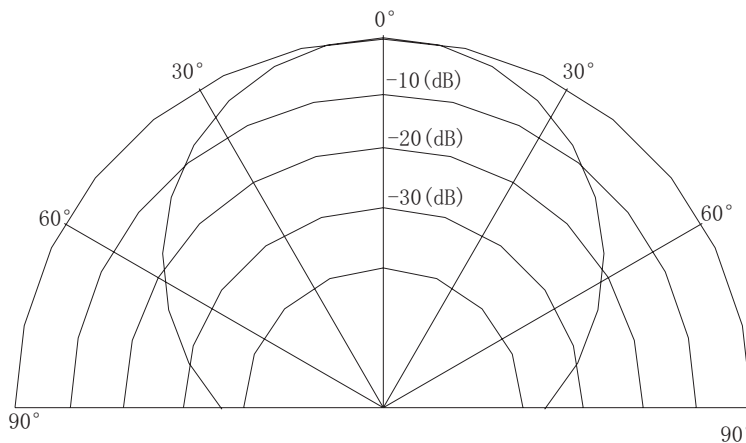
SPL vs. Frequency (Transmitter)



Sensitivity vs. Frequency (Receiver)



Directivity



## PACKAGING

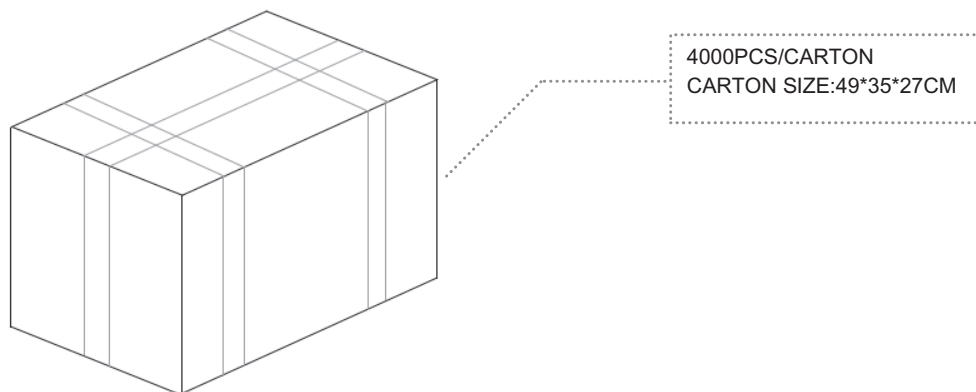
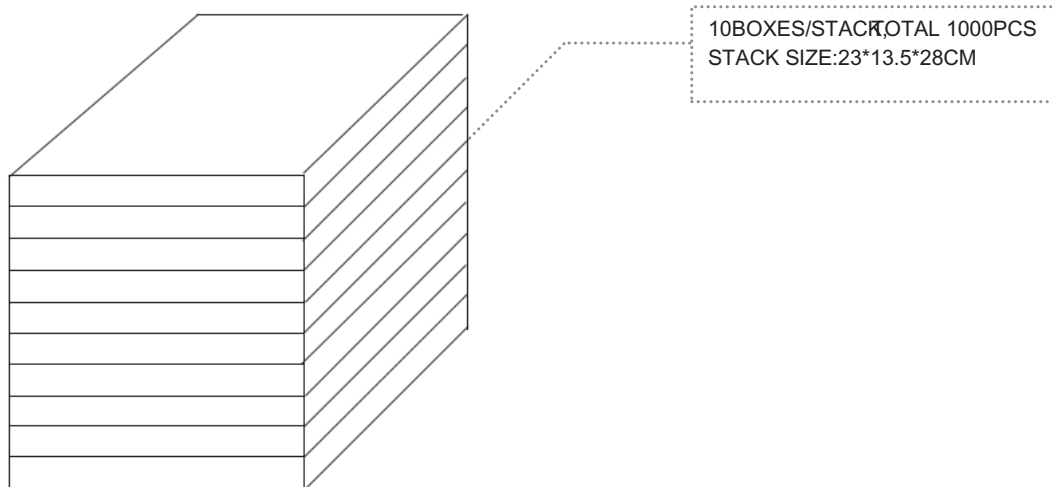
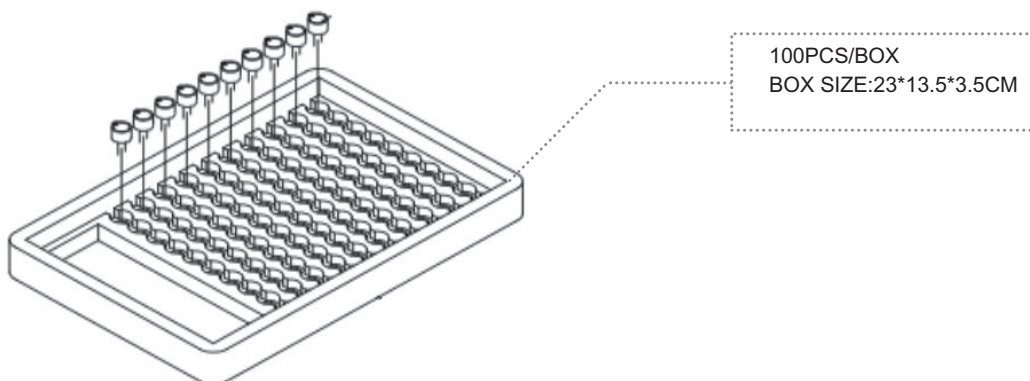
units: mm

Tray Size: 230 x 135 x 35 mm

Tray QTY: 100 pcs per tray

Carton Size: 490 x 350 x 270 mm

Carton QTY: 4,000 pcs per carton



## REVISION HISTORY

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rev.	description	date
1.0	initial release	12/02/2020

The revision history provided is for informational purposes only and is believed to be accurate.

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