CUI DEVICES

MODEL: CUSP-TR80-15-2500-TH | **DESCRIPTION:** ULTRASONIC SENSOR

FEATURES

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



RoHS

SPECIFICATIONS

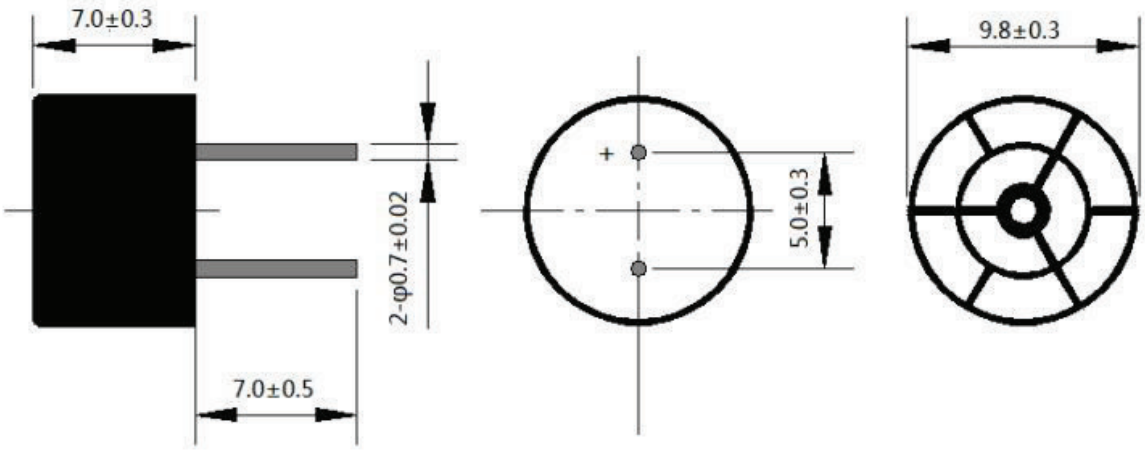
parameter	conditions/description	min	typ	max	units
type	transmitter/receiver				
operating voltage	at 40 kHz			80	Vp-p
frequency			40		kHz
sensitivity		-75			dBV/µMbar
sound pressure level	at 10 V, 30 cm, sine wave	105			dB
directivity			80		degree
capacitance	at 1 kHz	1,500	2,000	2,500	pF
detectable range		0.2		15	m
response time				1.6	ms
dimensions	Ø9.8 x 7.0				mm
material	ABS				
terminal	pins (iron with tin plating)				
weight			0.58		g
operating temperature		-20		80	°C
RoHS	yes				

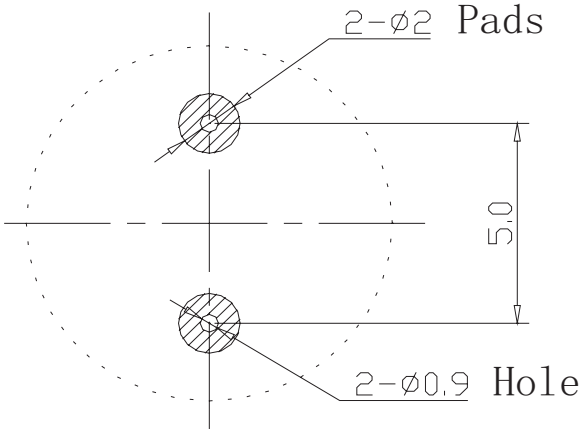
SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for 3 ± 0.5 seconds	370	380	390	°C

MECHANICAL DRAWING

units: mm

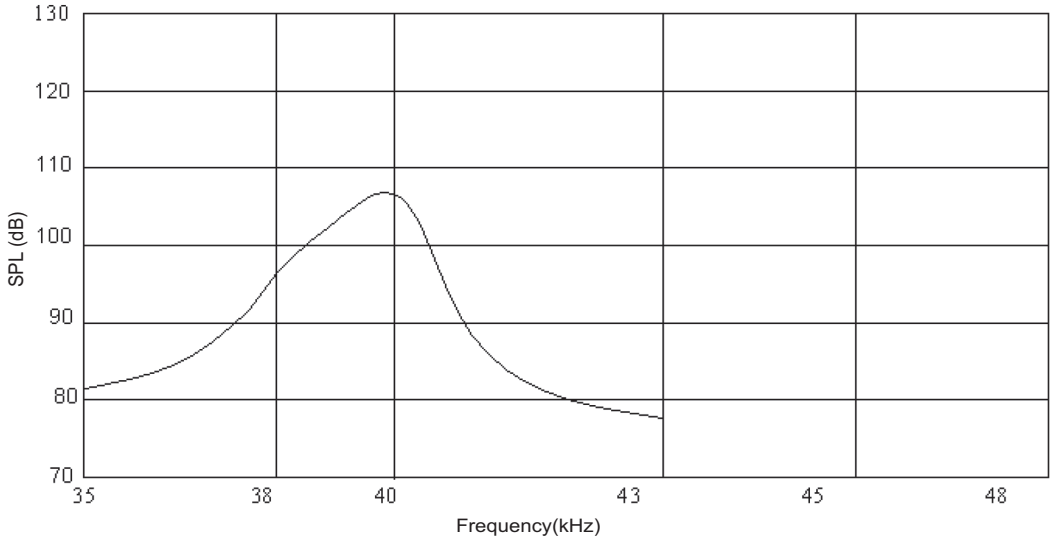




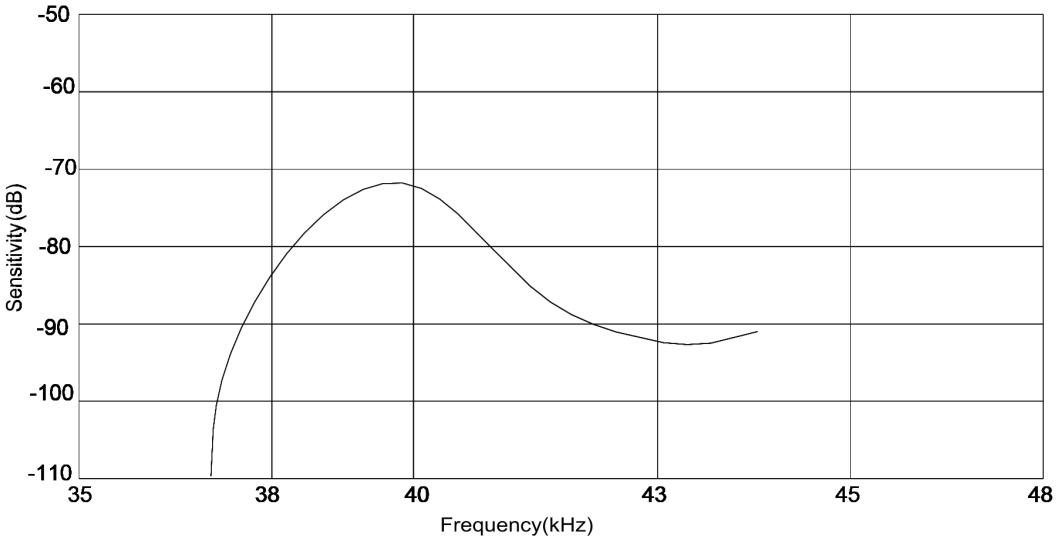
Recommended PCB Layout
Top View

BEAM PATTERNS

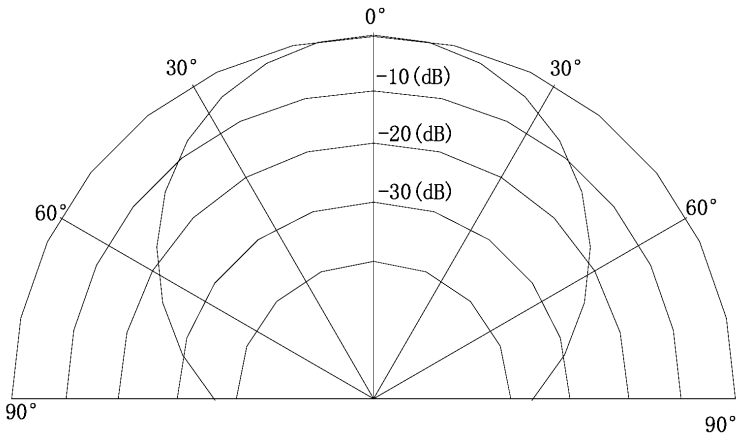
SPL vs. Frequency (Transmitter)



Sensitivity vs. Frequency (Receiver)



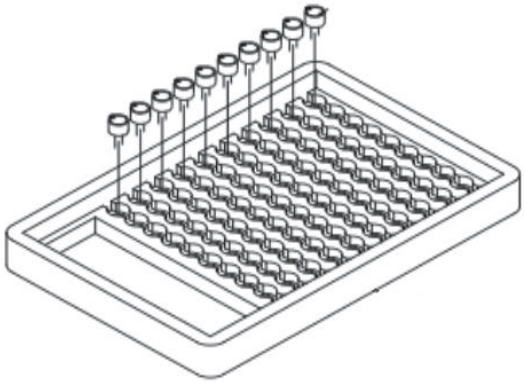
Directivity



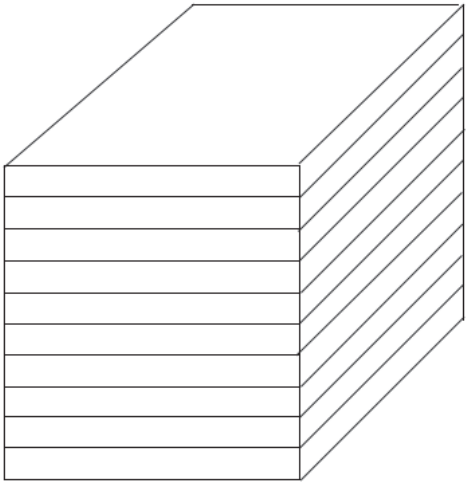
PACKAGING

units: mm

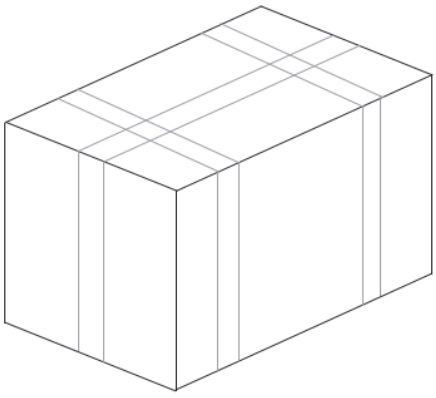
Tray Size: 230 x 135 x 35 mm
Tray QTY: 100 pcs per tray
Carton Size: 490 x 350 x 270 mm
Carton QTY: 4,000 pcs per carton



100PCS/BOX
BOX SIZE:23*13.5*5CM



10BOXES/STACK, TOTAL 1000PCS
STACK SIZE:23*13.5*28CM



4000PCS/CARTON
CARTON SIZE:49*35*27CM

REVISION HISTORY

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.

CUI DEVICES

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SJ-43516-SMT-TR-PI CMC-5042PF-AC PJ-047BH PJ-067B PR4-5V-450-1A SJ1-3535N
CDM1222-12A-FW-F16-050-67 CMP-5247TF-K CMA-4544PF-W CMM-2718AT-42316-TR CPI-1375IC-80T
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