# CPT22IM09-4.0-P3.5R

# Description

Picture

Chinasound Piezo Transducer 22mm diameter, type I (=10.8 mm height), MPPO housing, 09Vp-p rated voltage – 4.0KHz resonant frequency – Pin length 3.5mm, RoHS compliant

# RoHS compliant

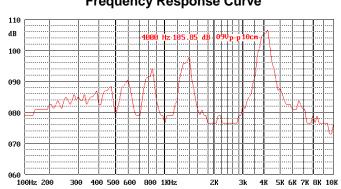
Reliable Solid State Piezoelectric Technology

Version: SP1.03.171-A0

- Flame Retardant Plastic
- Wave solderable
- Contains Lead zirconium titanium oxide (CAS)

# 12626-81-2) more than 0.1% **Frequency Response Curve**



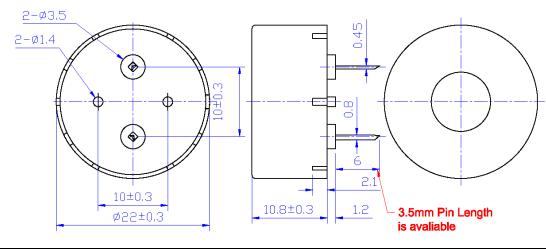


#### Specification Rated Voltage 9Vp-p square wave **Operating Voltage** 1 ~ 30Vp-p **Operating Frequency** 4,000+/-500Hz **Typical Sound Output** 95 dB min. at 9Vp-p 10cm 4.0 KHz 25 °C **Rated Current** 5 mA max. at 9 Vp-p 4.0KHz 25 °C 12,000+/-30% pF at 100Hz 1Vrms Capacitance **Operating Temp.** -30 °C to +105 °C Storage Temperature -40 °C to +125 °C Termination Description 2 Spring Pins, Tin plated **Termination Strength** Maximum of 9.8N load pull test, applied to each terminal in axial direction for 10 seconds **Construction Materials** Case Plastic, MPPO with 20% glass fibre housing, PPS bottom Diaphragm Brass Disc Weight (Typical) 3q Reliability \*Life Test At 9Vp-p in room temperature, continuously for 1000 hours \*High Temperature No function at +125+/-2 °C for 240 hours; Function at +105+/-2 °C for 240 hours \*Low Temperature No function at -40+/-2 °C for 240 hours; Function at -30+/-2 °C for 240 hours \*Humidity +40+/-2 °C, 95+/-5%RH, 240 hours -30+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr → +105+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr. Temperature Go \*Thermal Shock up or Drop time is 0.5 hr. 3 hrs per 1 cycle. Total is 5 cycles \*Vibration 1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular directions for 2 hours \*Shock 980m/s<sup>2</sup> (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions - upper \*Drop Test and side of the part are applied Terminals are immersed up to 1.5mm from sounder's body in solder bath of 350+/-5 °C for 3+/-0.5 \*Soldering Heat Resistance seconds or 260+/-5 °C for 10+/-1 seconds Terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 350+/-5 °C for \*\*Solderability 3+/-0.5 seconds For a period of one (1) year from date of manufacture under normal operations

### Warranty

\* All specifications must be satisfied after the test (Recovery: 2 to 4 hrs of recovery under the standard condition after the removal from test chamber). \*\*90% min. soldering pads shall be with solder.(except the edge of terminal)

# Dimensions (Unit: mm)



# All specifications are subject to change without notice

Composed by: David Zhang/190315



# ISO9001 certified

Revisions History			
Version	Description	Name	Date
Number			
SP1.03.171-A0	Original version, CPT22IM09-4.0-P3.5R	David Zhang	2019-03-15

