

Description

Chinasound Piezo Transducer 22 mm diameter, type A (=8 mm height), MPPO housing, 03 Vp-p rated voltage – 4.0 KHz resonant frequency, RoHS compliant

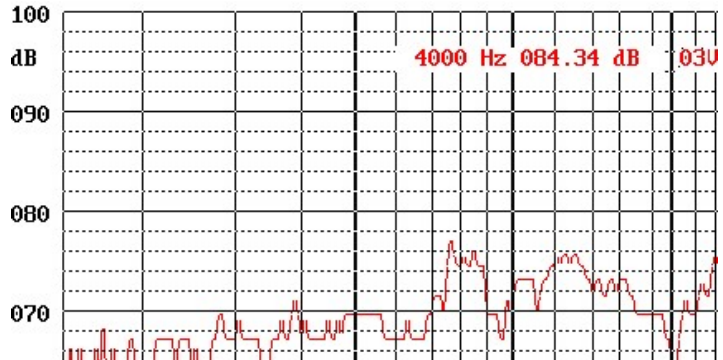
◆ RoHS compliant

- ◆ Reliable Solid State Piezoelectric Technology
- ◆ Flame Retardant Plastic
- ◆ Contains Lead zirconium titanium oxide (CAS 12626-81-2) more than 0.1%

Picture



Frequency Response Curve



Specification

- Rated Voltage
- Operating Voltage
- Operating Frequency
- Typical Sound Output
- Rated Current
- Capacitance
- Operating Temp.
- Storage Temperature
- Termination

3 Vp-p square wave
 1 ~ 30 Vp-p
 4,000+/-500Hz
 80 dB min. at 3 Vp-p 10cm 4.0 KHz 25 °C
 1 mA max. at 3 Vp-p 4.0 KHz 25 °C
 -30 °C to +105 °C
 -40 °C to +110 °C
Description
 2 Pins, Sn plated Brass Qbe0.2Y
Termination Strength
 Maximum of 9.8N load pull test, applied to each terminal in axial direction for 10 seconds
Case
 Plastic, Housing Noryl GF20; Bottom PPS
Diaphragm
 Brass Disc
 2 g
***Life Test**
 At 3 Vp-p in room temperature, continuously for 1000 hours
***High Temperature**
 No function at +110+/-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
***Thermal Cycle**
 -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 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/s² (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each
***Drop Test**
 Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied
***Soldering Heat Resistance**
 Pins are immersed up to 1.5mm from sounder's body in solder bath of 350+/-5 °C for 3+/-0.5 seconds or 260+/-5 °C for 10+/-1 seconds
****Solderability**
 Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 350+/-5 °C for 3+/-0.5 seconds.

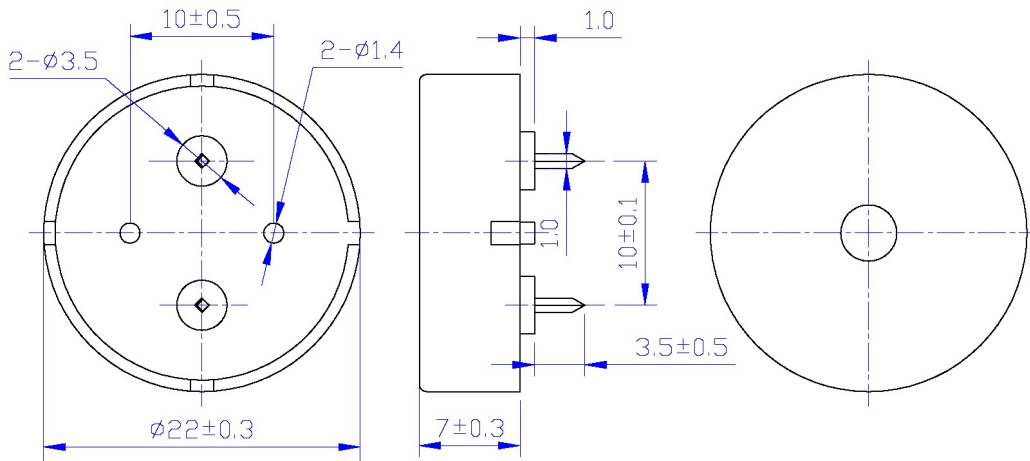
Construction Materials

- Weight (Typical)
- Reliability

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 pad)

Dimensions (Unit:mm)



All specifications are subject to change without notice

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Revisions History

Version Number	Description	Name	Date
SP1.03.043-A0	Original CPT22AM03-4.0R	David Zhang	2014-05-22
SP1.03.043-B0	With regard to REACH regulation, add "Contains Lead zirconium titanium oxide (CAS 12626-81-2) more than 0.1%".	David Zhang	2016-12-01