

**Description**

**CSPT23B09-4.0F:**

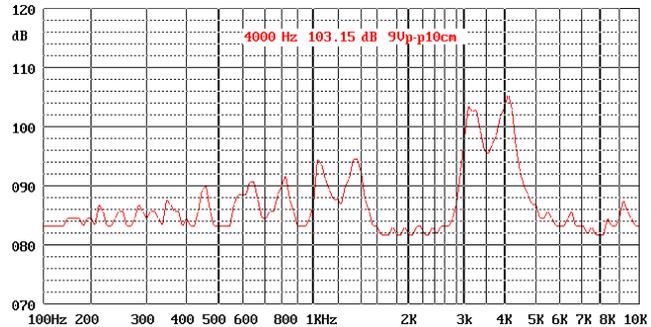
Chinasound SMD Piezo Transducer 23mm diameter, type B(=10.8mm height), 9Vp-p rated voltage – 4KHz resonant frequency, lead Free reflowing solderable and RoHS compliant

- ◆ RoHS compliant
- ◆ Reliable Solid State Piezoelectric Technology
- ◆ Flame Retardant Plastic
- ◆ Reflowing solderable

**Picture**



**Frequency Response Curve**



**Specification**

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

**Construction Materials**

- Weight (Typical)
- Reliability

- Description
- Termination Strength
- Case
- Diaphragm

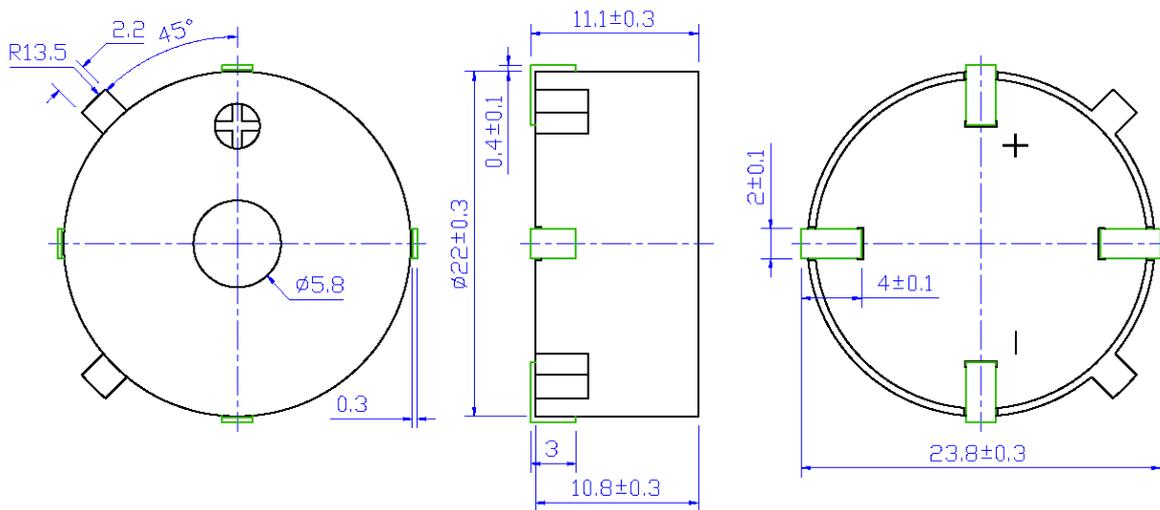
- \*Life Test
- \*High Temperature
- \*Low Temperature
- \*Humidity
- \*Thermal Shock
- \*Vibration
- \*Shock
- \*Drop Test
- \*Soldering Heat Resistance
- \*\*Solderability

9 Vp-p square wave  
 30 Vp-p max.  
 4000+/-500Hz  
 100dB min. at 9Vp-p 10cm 4KHz 25 °C  
 5mA at 9Vp-p 4KHz 25 °C  
 12000+/-30% pF at 100Hz 1Vrms  
 -30 °C to +85 °C  
 -40 °C to +90 °C  
 2 soldering pads, Sn plated Brass  
 Maximum of 9.8N (1kgs) for 10 seconds load pull test  
 Plastic, PPS A7-03 or equal  
 Ni Alloy Disc N42 or equal  
 3.05 g  
 At 9 Vp-p in room temperature continuously for 1000 hours  
 No function at +90+/-2 °C for 240 hours; Function at +85+/-2 °C for 240 hours  
 No function at -40+/-2 °C for 240 hours; Function at -30+/-2 °C for 240 hours  
 +40+/-2 °C, 95+/-5%RH, 240 hours  
 -30+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr → +85+/-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  
 1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular directions for 2 hours  
 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 and side of the part are applied  
 Samples put through reflowing soldering oven 2 twice  
 Samples put on PCB with solder paste through reflowing soldering oven 1 times  
 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 pad)

**Dimensions (Unit:mm)**



All specifications are subject to change without notice



