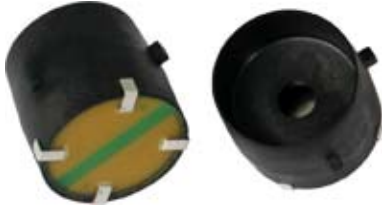


Description

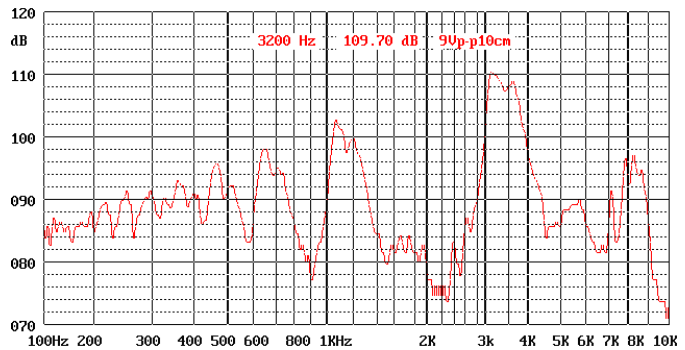
Chinasound SMD Piezo Transducer 23mm diameter, type C(=20mm height), 9Vp-p rated voltage – 3.2KHz resonant frequency, lead Free reflowing solderable and RoHS compliant

- ◆ 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

9 Vp-p square wave
 30 Vp-p max.
 3200+/-500Hz
 102dB min. at 9Vp-p 10cm 3.2KHz 25 °C
 5mA at 9Vp-p 3.2KHz 25 °C
 25,000+/-30% pF at 100Hz 1Vrms
 -30 °C to +85 °C
 -40 °C to +90 °C

Construction Materials

- Description
- Termination Strength
- Case
- Diaphragm

4 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

Weight (Typical) Reliability

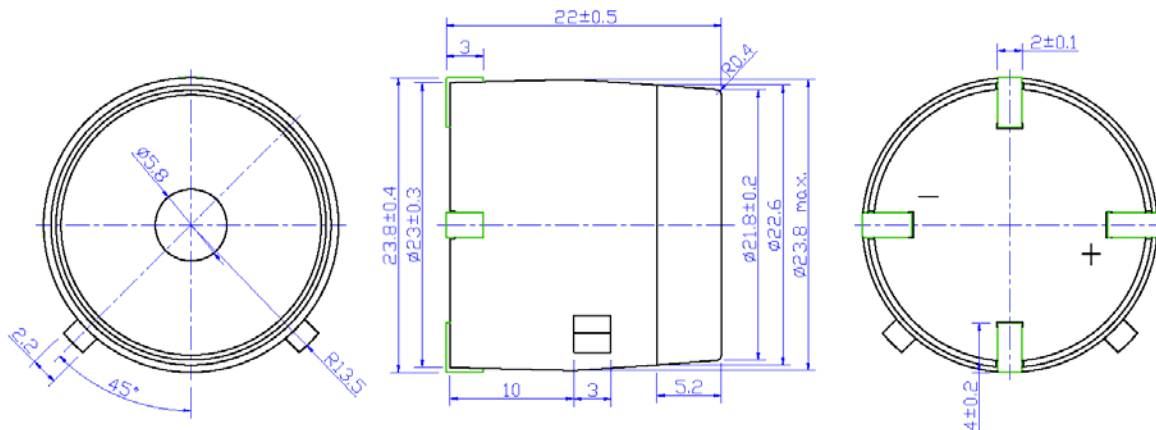
- *Life Test
- *High Temperature
- *Low Temperature
- *Humidity
- *Thermal Shock
- *Vibration
- *Shock
- *Drop Test
- *Soldering Heat Resistance
- **Solderability

5.35g
 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/s² (=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

Warranty

For a period of one (1) year from date of manufacture under normal operations
 Samples put through reflowing soldering oven 2 times
 Samples put on PCB with solder paste through reflowing soldering oven 1 times
 *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
090209	Original,	Guo Jun
090403	The rated frequency is optimized from 4.0KHz to 3.2KHz to match customer's PCB driving signal. Quantity per reel is changed from	Gao Chunli
090603	The housing height and sound hole dimensions are adjusted as per customer's requirement. Carrier of SMD package is also adjusted as per updated part dimensions. Recommended reflowing soldering profile is updated as per JEDEC J-STD-020D.	Gao Chunli