CSPT23C09-3.2F Version: 101220

Description

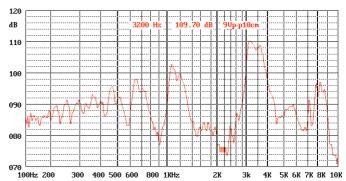
Chinasound SMD Piezo Transducer 23mm diameter, type C(=20mm height), 9Vp-p rated voltage – 3.2KHz resonant frequency, lead Free reflowing solderable and RoHS compliant

- ♦ 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

Construction Materials

Weight (Typical) Reliability 9 Vp-p square wave 30 Vp-p max. 3200+/-500Hz

102dB min. at 9Vp-p 10cm 3.2KHz 25 $^{\circ}\text{C}$ 5mA at 9Vp-p 3.2KHz 25 $^{\circ}\text{C}$

25,000+/-30% pF at 100Hz 1Vrms

-30 °C to +85 °C -40 °C to +90 °C

Description 4 soldering pads, Sn plated Brass

Termination Strength

Maximum of 9.8N (1kgs) for 10 seconds load pull test

Plastic. PPS A7-03 or equal

Diaphragm Ni Alloy Disc N42 or equal

5.35g

*Life Test At 9 Vp-p in room temperature continuously for 1000 hours

*High Temperature No function at +90+/-2 °C for 240 hours; Function at +85+/-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 Shock -30+/-2 °C 0.5 hr \rightarrow +25+/-2 °C 0.25 hr \rightarrow +85+/-2 °C 0.5 hr \rightarrow +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

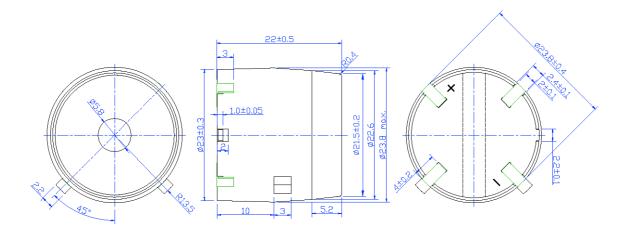
Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions –

upper and side of the part are applied

*Soldering Heat Resistance
**Solderability
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

Dimensions (Unit:mm)



All specifications are subject to change without notice

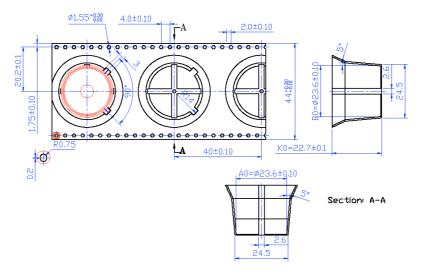
Composed by: Guo J/101220 Checked by: Gao CL, Gong YS, Zhu YC/101220 Approved by: Wang Z/101220



^{*}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).

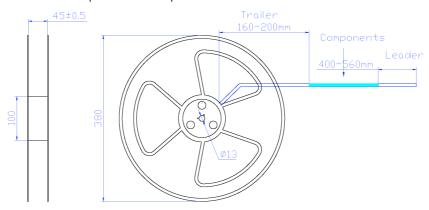
 $^{^{\}star\star}90\%$ min. soldering pads shall be with solder.(except the edge of pad)

Tape & Reel Dimensions (Unit:mm)

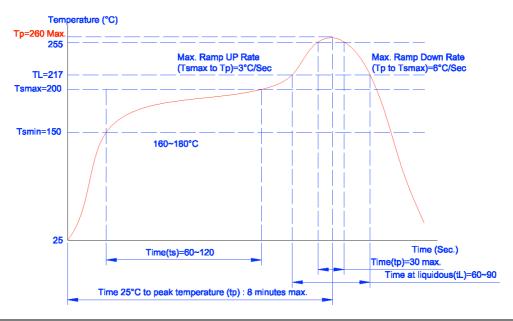


NOTE:

- 1.10 sprocket holes pitch cumulative tolerance +/-0.20mm.
- 2. Carrier camber not to exceed 1 mm in 100 mm.
- 3. Ao & Bo measured on a place 0.3mm above the bottom of the pocket
- 4. Ko measured from a plane on the inside bottom of pocket to the top surface of the carrier.
- 5. All dimensions meet EIA-481-2-A requirements.
- 6. Component loaded 4.8meters per 15" reel: 100 pcs.



Recommend Reflowing Profile as per IPC/JEDEC J-STD-020D



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ISO9001 certified

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
101207	Dimensions drawings are revised to last version	Guo Jun
101220	Dimensions drawings of 101207 are corrected, wrong picture is removed.	Guo Jun

