

**Description**

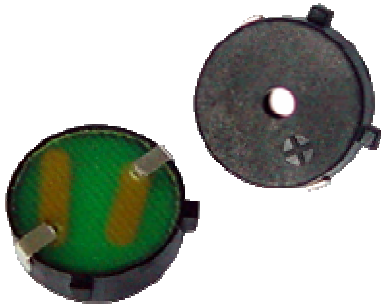
**CSPT17D12-4.0F:**

Chinasound SMD Piezo Transducer 17mm diameter, type D (=6mm height, Ni Alloy Disc and Ceramic Disc are connected with PCB by Springs), 12Vp-p rated voltage – 4.0KHz resonant frequency, lead Free reflowing solderable and RoHS compliant

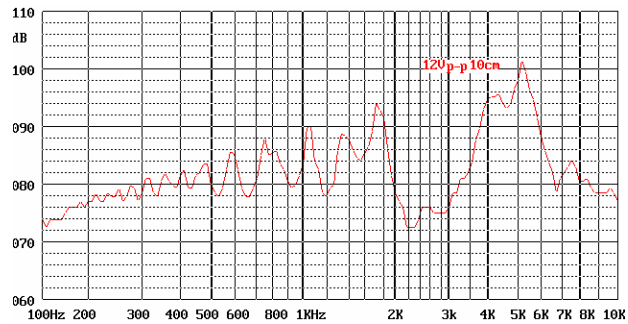
**◆ RoHS compliant**

- ◆ Reliable Solid State Piezoelectric Technology
- ◆ Corrosion Resistance Diaphragm
- ◆ Flame Retardant Plastic
- ◆ Tape and reel packaging for auto mounting

**Picture**



**Frequency Response Curve**



**Specification**

- Rated Voltage
- Operating Voltage
- Operating Frequency
- Typical Sound Output
- Rated Current
- Capacitance
- Operating Temperature
- Storage Temperature
- Termination
- Construction Materials
- Weight (Typical)
- Reliability

- Description
- Case
- Diaphragm

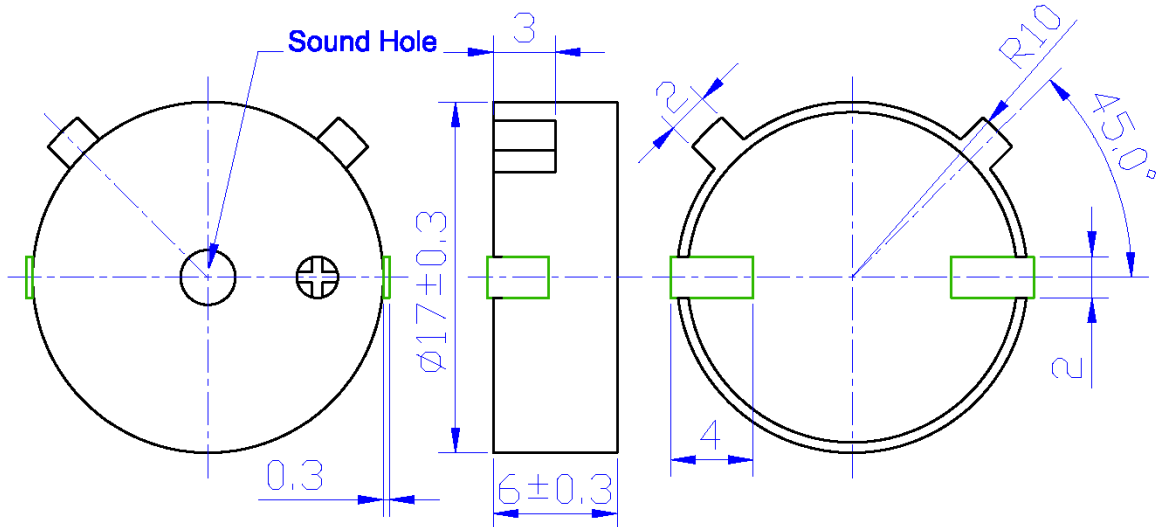
12 Vp-p  
 1 ~ 25 Vp-p  
 4000+/-500Hz  
 90dB min. (97dB typ.) at 12Vp-p 10cm 4.0KHz 25 °C  
 3mA at 12Vp-p  
 15000+/-30% pF at 100Hz 1Vrms  
 -30 °C to +85 °C  
 -40 °C to +90 °C  
 2 soldering pads, Sn plated Brass  
 Plastic, PPS A7-03A  
 Ni Alloy Disc N42  
 1.6g  
 At 12 Vp-p in room temperature 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+/-25%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 over 2 twice  
 Samples put on PCB with solder paste through reflowing soldering over 1 times  
 For a period of one (1) year from date of manufacture under normal operations

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

**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)**

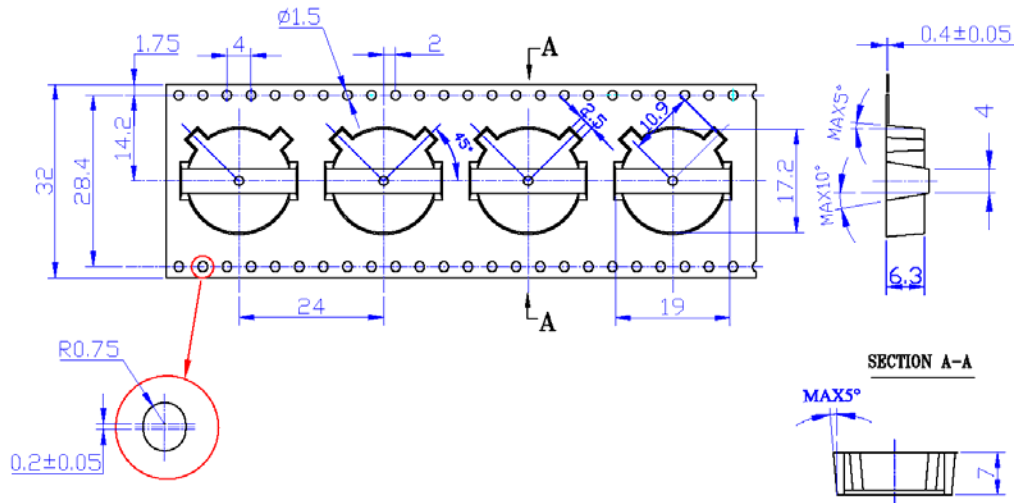


All specifications are subject to change without notice



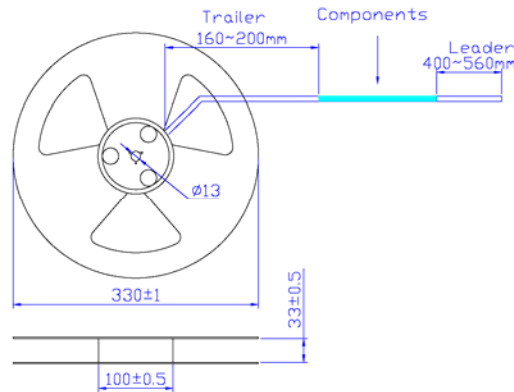
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Tape & Reel Dimensions (Unit:mm)

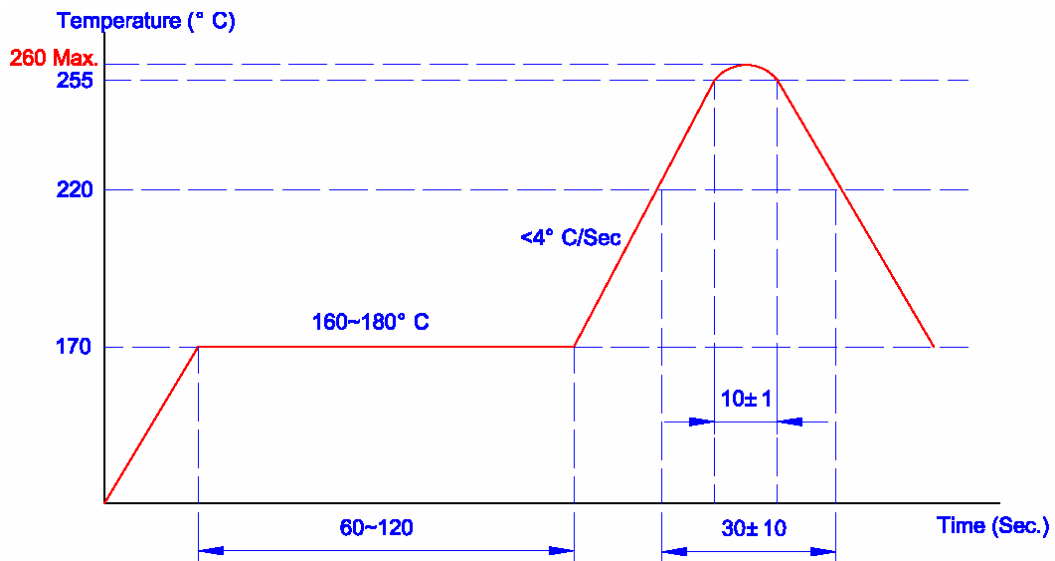


NOTE:

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 per 13" reel: 400 pcs.



Recommend Reflowing Profile



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