

**Description**

Chinasound SMD Piezo Transducer 17mm diameter, type C(=9mm height) , 12Vp-p rated voltage – 2.0KHz resonant frequency, lead Free reflowing solderable and RoHS compliant

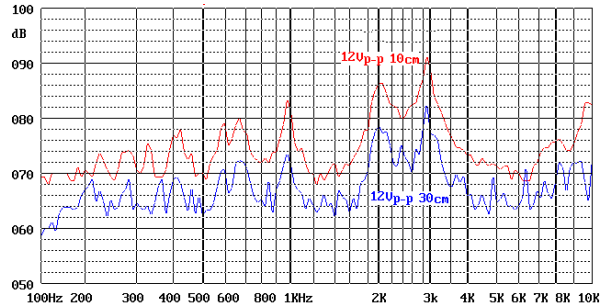
**◆ RoHS compliant**

- ◆ 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

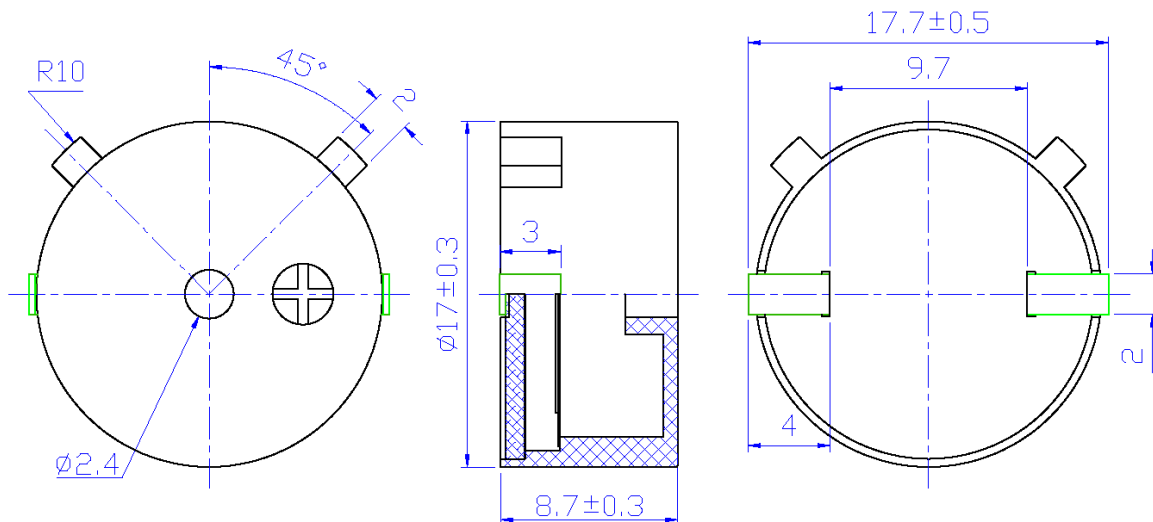
12 Vp-p  
1 ~ 25 Vp-p  
2000+/-500Hz  
80dB min. at 12Vp-p 10cm 2.0KHz 25 °C  
2 mA at 12Vp-p 2.0KHz 25 °C  
19000+/-30% pF at 100Hz 1Vrms  
-30 °C to +85 °C  
-40 °C to +90 °C  
2 soldering pads, Sn plated Brass  
Plastic, PPS A7-03A  
Ni Alloy Disc N42  
1.6g  
At 12 Vp-p in room temperature continuously 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+/-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 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

Composed by: Guo J/090706 Checked by: Gao CL, Gong YS, Zhu YC/090706 Approved by: Wang Z/090706



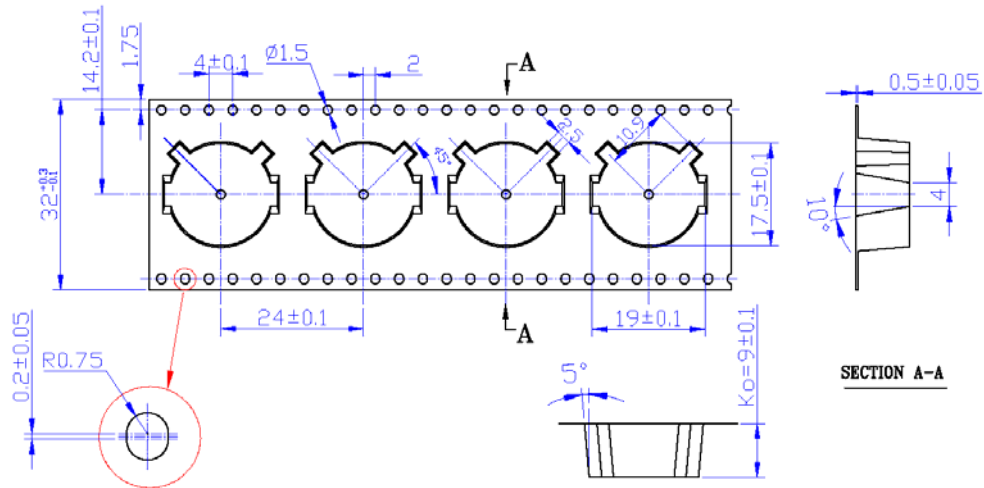
CHANGZHOU CHINASOUND ELECTRONICS CO., LTD.

Tel: +86-519-86182518 Fax: +86-519-86182519

http://www.chinasound.com

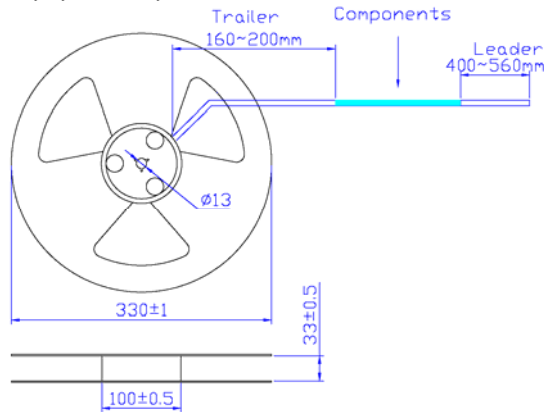
email: csound@jmail.com.cn

**Tape & Reel Dimensions (Unit:mm)**

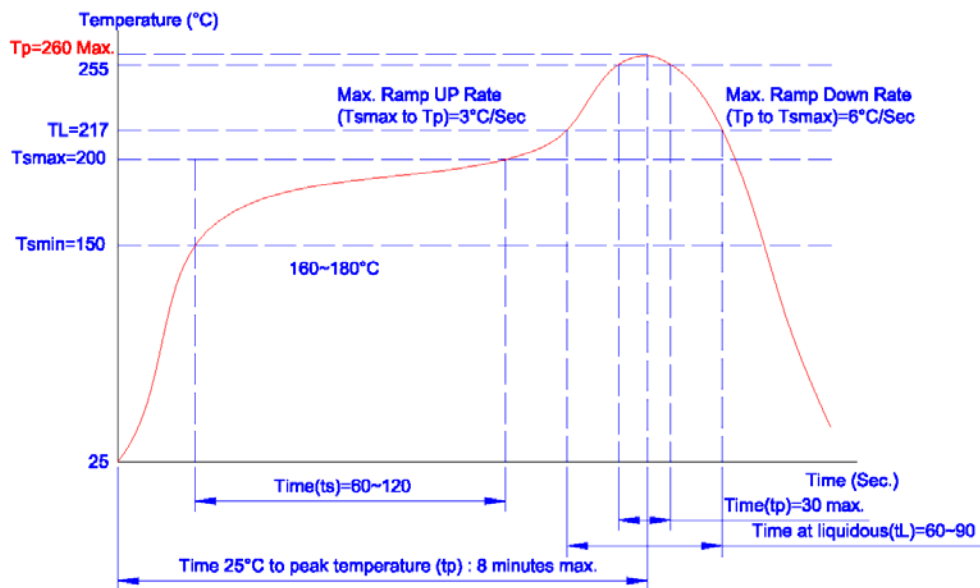


**NOTE:**

1. 10 sprocket hole pitch cumulative tolerance +/-0.20mm.
2. Carrier camber not to exceed 1 mm in 250 mm.
3. All dimensions meet EIA-481-2-A requirements.
4. Thickness: 0.40+/-0.05 mm.
5. Component loaded per 13" reel: 350 pcs.
6. Material : Black Conductive Polystyrene Alloy



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



All specifications are subject to change without notice

Composed by: Guo J/090706 Checked by: Gao CL, Gong YS, Zhu YC/090706 Approved by: Wang Z/090706

**ChinaSound**

**CHANGZHOU CHINASOUND ELECTRONICS CO., LTD.**

Tel: +86-519-86182518 Fax: +86-519-86182519

<http://www.chinasound.com>

email: [csound@jmail.com.cn](mailto:csound@jmail.com.cn)

## Revisions History

| Version Number | Description  | Name    |
|----------------|--|---------|
| 050812         | Original, CSPT17C12-2.0-F  | Guo Jun |
| 060812         | Change specification format, PN is changed from CSPT17C12-2.0-F to CSPT17C12-2.0F. | Guo Jun |
| 090706         | Recommended reflowing soldering profile is updated as per JEDEC J-STD-020D.        | Guo Jun |

Composed by: Guo J/090706 Checked by: Gao CL, Gong YS, Zhu YC/090706 Approved by: Wang Z/090706

**ChinaSound**

**CHANGZHOU CHINASOUND ELECTRONICS CO., LTD.**

Tel: +86-519-86182518 Fax: +86-519-86182519

<http://www.chinasound.com>

email: [csound@jsoil.com.cn](mailto:csound@jsoil.com.cn)