

**Description**

Chinasound SMD Piezo Transducer 16mm length, type C(=16mm width, 2.5mm height, 3mm width soldering pads), 3Vp-p rated voltage – 4.0KHz resonant frequency, lead Free reflowing solderable and RoHS compliant

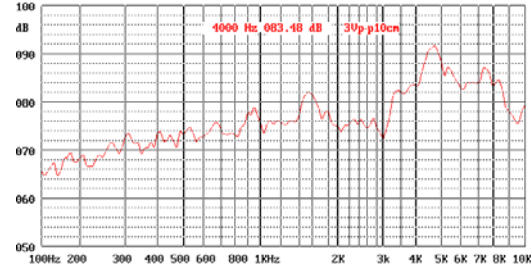
◆ **RoHS compliant**

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

**Picture**



**Characteristics**



**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**

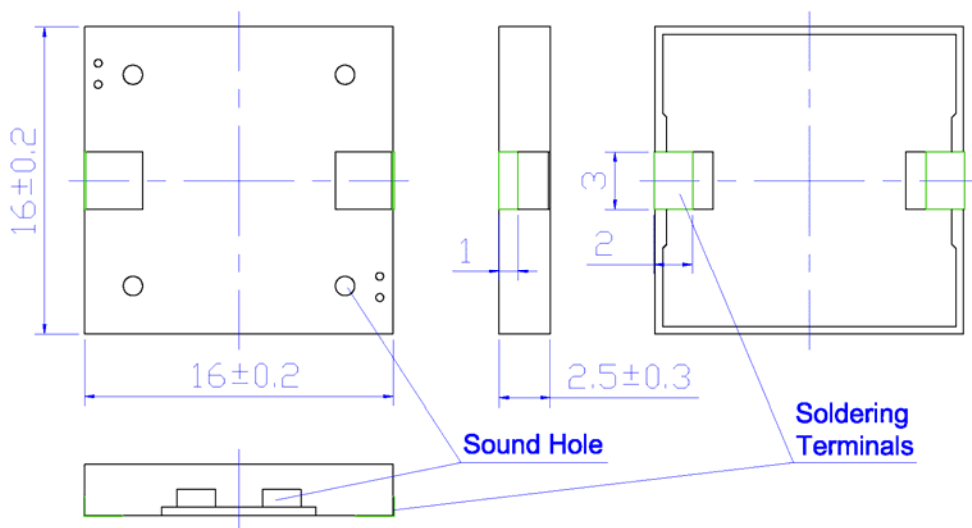
- \*Life Test
- \*High Temperature
- \*Low Temperature
- \*Humidity
- \*Thermal Shock
- \*Vibration
- \*Shock
- \*Drop Test
- \*\*Termination Strength
- \*\*\*Soldering Heat Resistance
- \*\*\*\*Solderability

3 Vp-p max. square wave  
 25 Vp-p max. square wave  
 4,000+/-500Hz  
 75dB min. ( Typ. 81 dB ) at 3 Vp-p 10cm 4KHz 25 °C  
 1mA at 3Vp-p  
 15,000+/-30% pF at 100Hz 1Vrms  
 -40 °C to +120 °C  
 -40 °C to +120 °C  
 2 soldering terminals, Sn plated Brass  
 Plastic, LCP Vectra E130i  
 Ni Alloy Disc N42  
 0.8g  
 At 3 Vp-p, 1 minutes ON 1 minutes OFF in room temperature continuously for 1000 hours  
 No function at +120+/-2 °C for 240 hours; Function at +120+/-2 °C for 240 hours  
 No function at -40+/-2 °C for 240 hours; Function at -40+/-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 → +105+/-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  
 Maximum of 9.8N (1kgs) for 10 seconds load pull test  
 Samples put through reflowing soldering oven 2 twice  
 Samples put 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

Composed by: Guo J/090624 Checked by: Gao CL, Gong YS, Zhu YC/090624 Approved by: Wang Z/090624



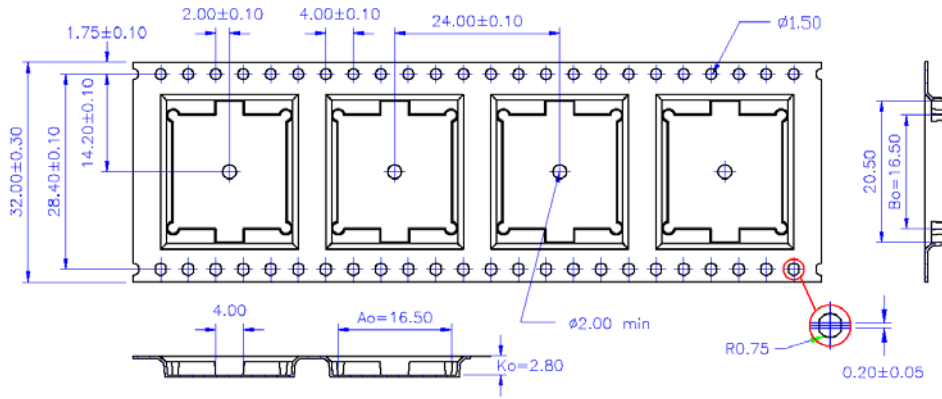
CHANGZHOU CHINASOUND ELECTRONICS CO., LTD.

Tel: +86-519-86182518 Fax: 86182519

http://www.chinasound.com

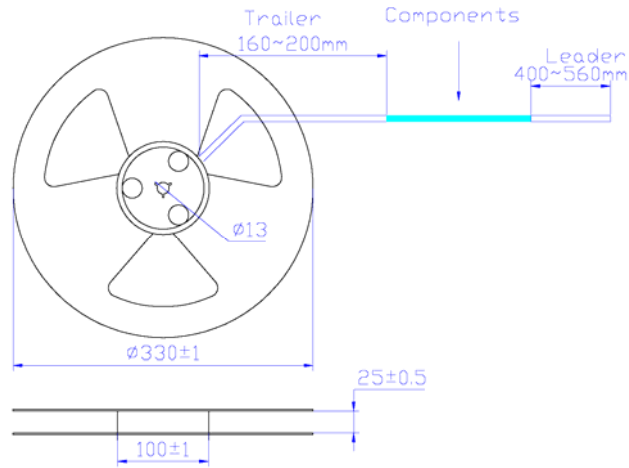
email: csound@jsmail.com.cn

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

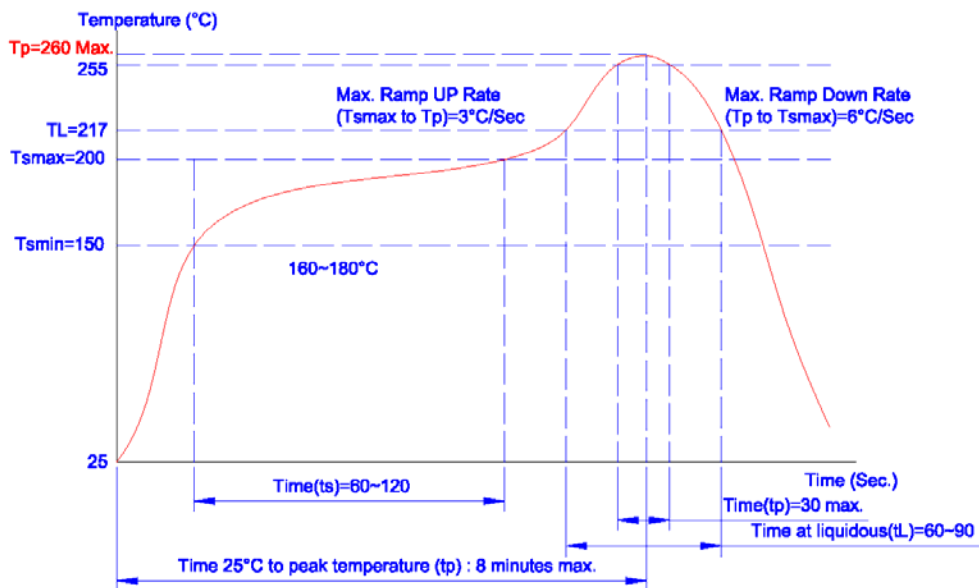


**NOTE:**

1. 10 sprocket holes pitch cumulative tolerance  $\pm 0.20$ mm.
2. Carrier camber not to exceed 1 mm in 100 mm.
3. Ao & Bo measured on a plane 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: 750 pcs.



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



All specifications are subject to change without notice

Composed by: Guo J/090624

Checked by: Gao CL, Gong YS, Zhu YC/090624

Approved by: Wang Z/090624

**ChinaSound**

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

Tel: +86-519-86182518 Fax: 86182519

http://www.chinasound.com

email: csound@jsmail.com.cn

**Revision History**

Version Number	Description	Name
081103	Original, CSPT16C03-4.0F	Guo Jun
090624	Update recommend reflowing profile as per J-STD-020D	Guo Jun