

**Description**

**CSPT16A03-4.0F:**

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

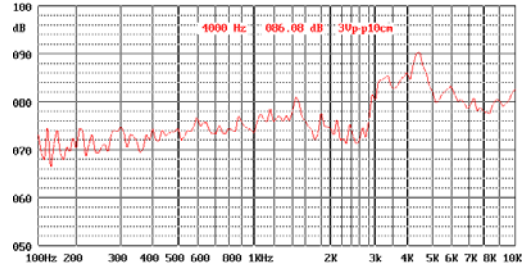
◆ **RoHS compliant**

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

**Picture**



**Characteristics**



**Specification**

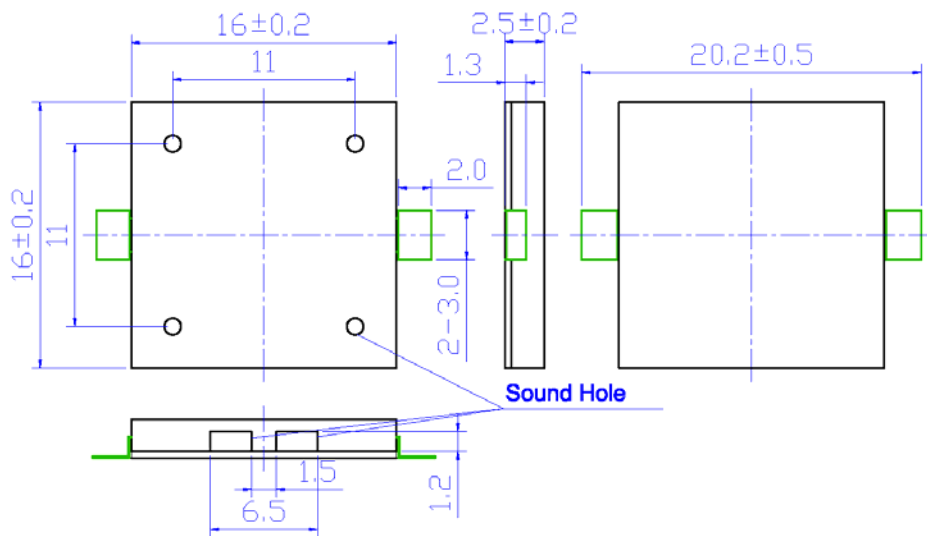
- Rated Voltage
- Operating Voltage
- Operating Frequency
- Typical Sound Output
- Rated Current
- Capacitance
- Operating Temperature
- Storage Temperature
- Termination
- Construction Materials
- Weight (Typical)
- Reliability

<ul style="list-style-type: none"> <li>Description</li> <li>Case</li> <li>Diaphragm</li> <li>*Life Test</li> <li>*High Temperature</li> <li>*Low Temperature</li> <li>*Humidity</li> <li>*Thermal Shock</li> <li>*Vibration</li> <li>*Shock</li> <li>*Drop Test</li> <li>**Termination Strength</li> <li>***Soldering Heat Resistance</li> <li>****Solderability</li> </ul>	<p>3 Vp-p max. square wave                  25 Vp-p max. square wave                  4000+/-500Hz                  75dB min. ( Typ. 84 dB ) at 3 Vp-p 10cm 4KHz 25 °C                  1mA at 3Vp-p                  15000+/-30% pF at 100Hz 1Vrms                  -30°C to +85°C                  -40°C to +90°C                  2 soldering pads, Sn plated Brass                  Plastic, LCP Vectra E130i                  Ni Alloy Disc N42                  0.8g                  At 3 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                  Maximum of 9.8N (1kgs) for 10 seconds load pull test                  Samples put through reflowing soldering oven 2 times                  Samples put through reflowing soldering oven 1 times                  For a period of one (1) year from date of manufacture under normal operations</p>
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**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)

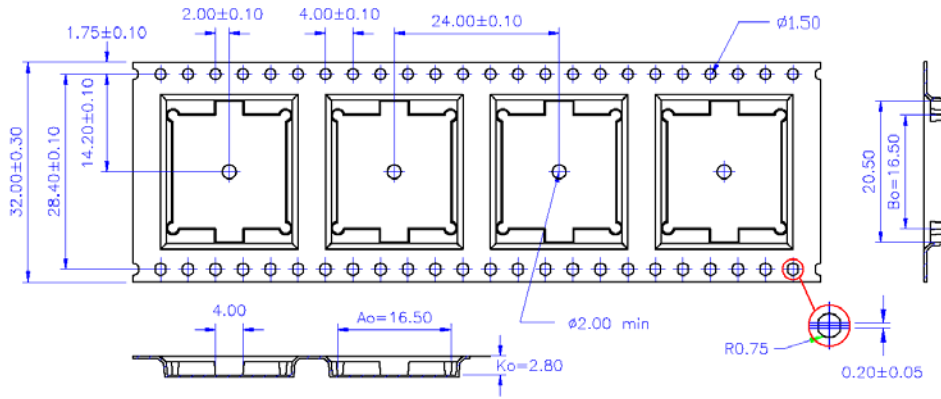
**Dimensions (Unit:mm)**



All specifications are subject to change without notice

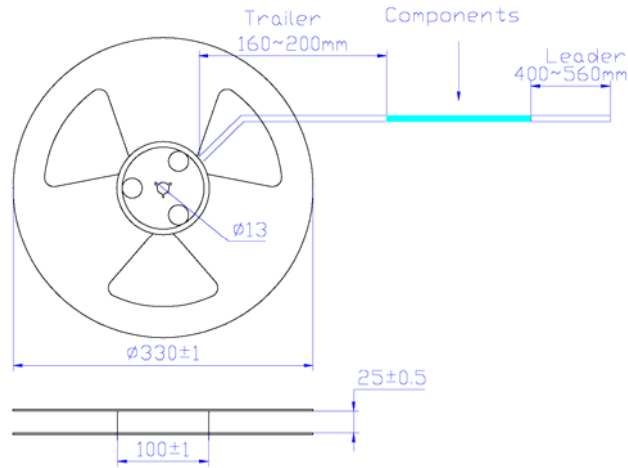


**Tape & Reel Dimensions (Unit:mm)**

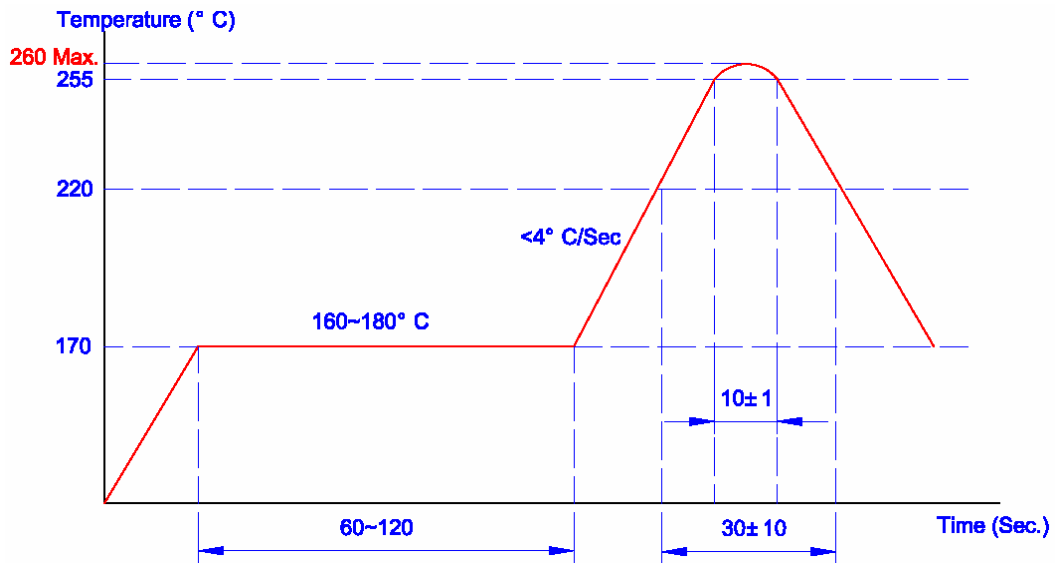


**NOTE:**

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.



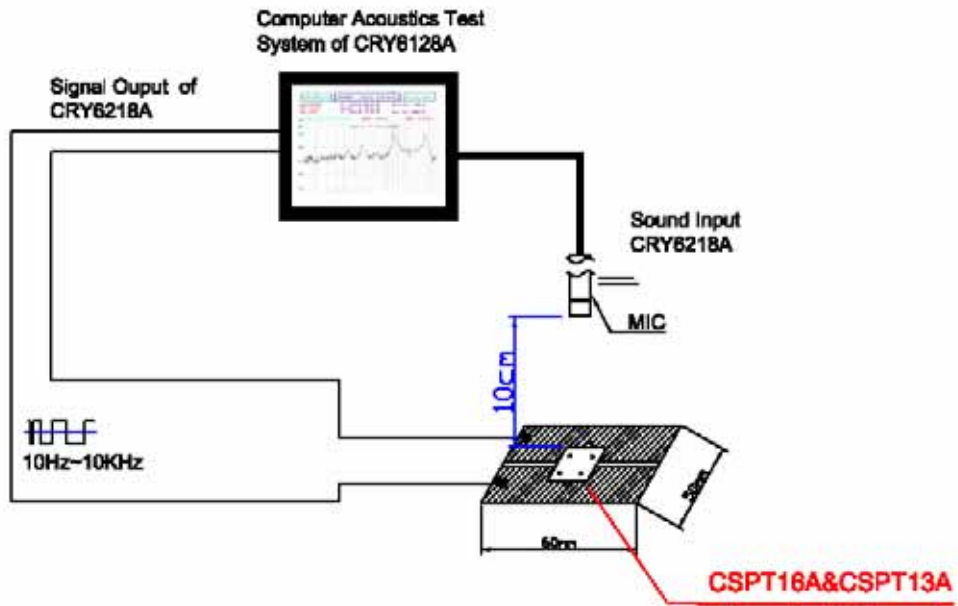
**Recommend Reflowing Profile**



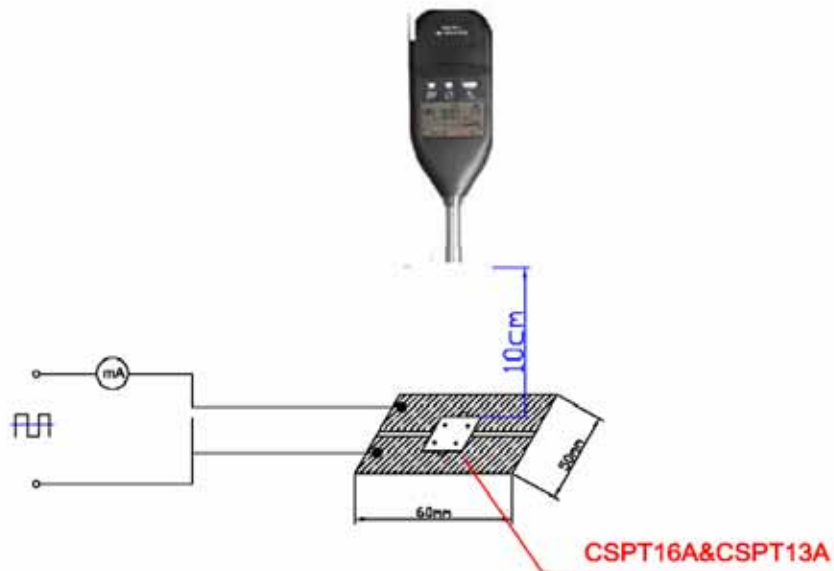
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Test Methods

SPL1: Tested by Computer Acoustics Test System of CRY6128A



SPL2: Tested by Sound level meter Brüel & Kjær Type 2240



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