

Description

CSPT13A05-4.0F:

Chinasound SMD Piezo Transducer 12.8(<13mm) length, type A(=12.8 mm width,2.5mm height), 5Vp-p rated voltage – 4.0KHz resonant frequency, lead Free reflowing solderable and RoHS compliant

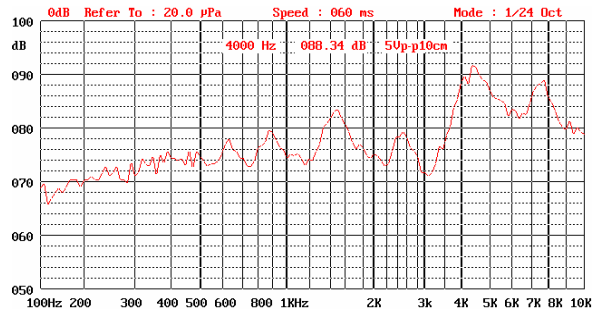
◆ RoHS compliant

- ◆ 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

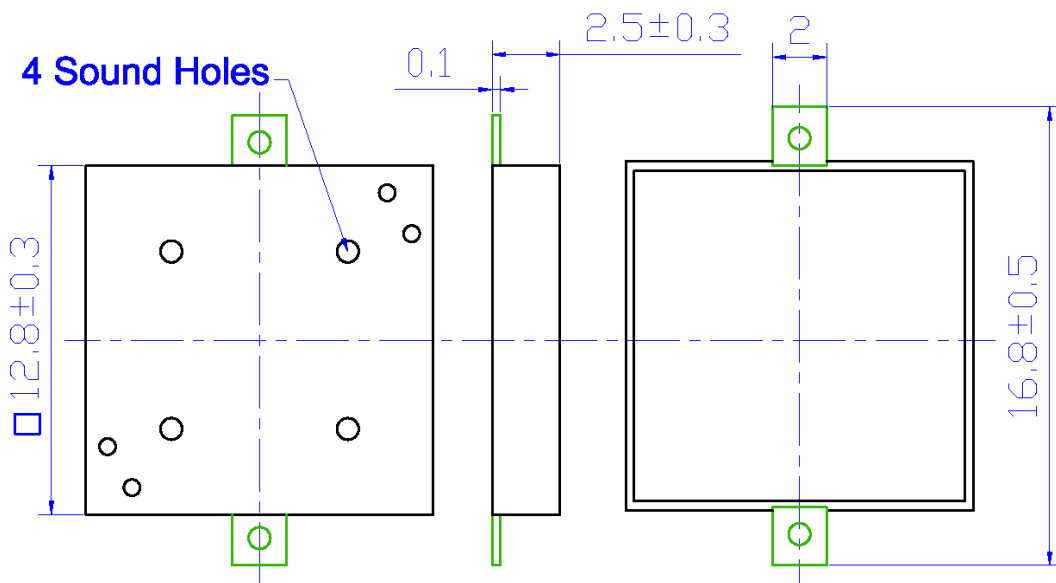
5 Vp-p
 1 ~ 25 Vp-p
 4000+/-500Hz
 85dB min. at 5Vp-p 10cm 4.0KHz 25 °C , tested on 50x60mm PCB.
 2mA at 5Vp-p
 15000+/-30% pF at 100Hz 1Vrms
 -30 °C to +85 °C
 -40 °C to +90 °C
 2 soldering pads, Sn plated Brass
 Plastic, LCP Vectra E130i
 Ni Alloy Disc N42
 0.9 g
 At 5 Vp-p in room temperature, 1 cycle = 1 min. ON 4 min. OFF, 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/s² (=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

- Description
- Case
- Diaphragm
- *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)

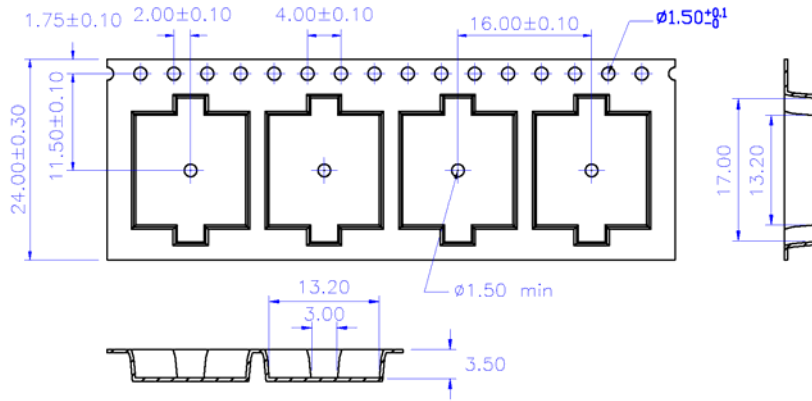
Dimensions (Unit:mm)



All specifications are subject to change without notice

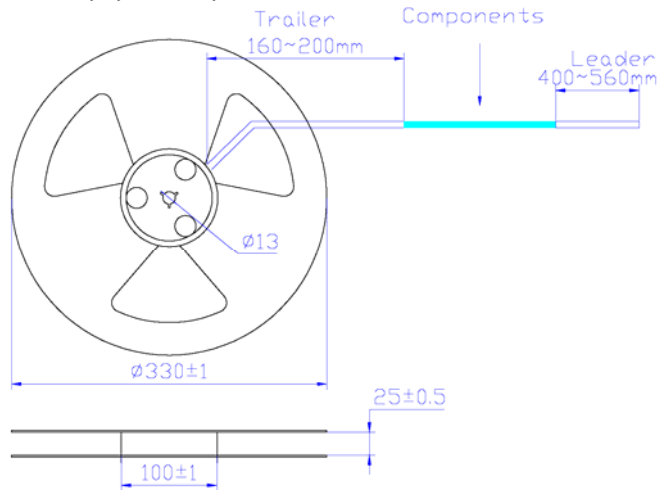


Tape & Reel Dimensions (Unit:mm)

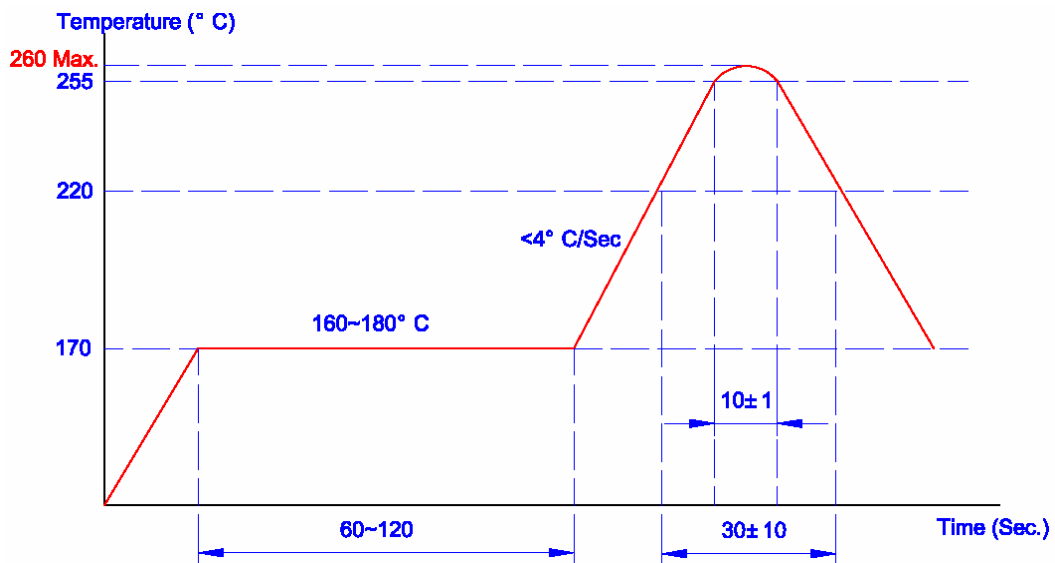


NOTE:

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: 1000 pcs.
6. Material : Black Conductive Polystyrene Alloy



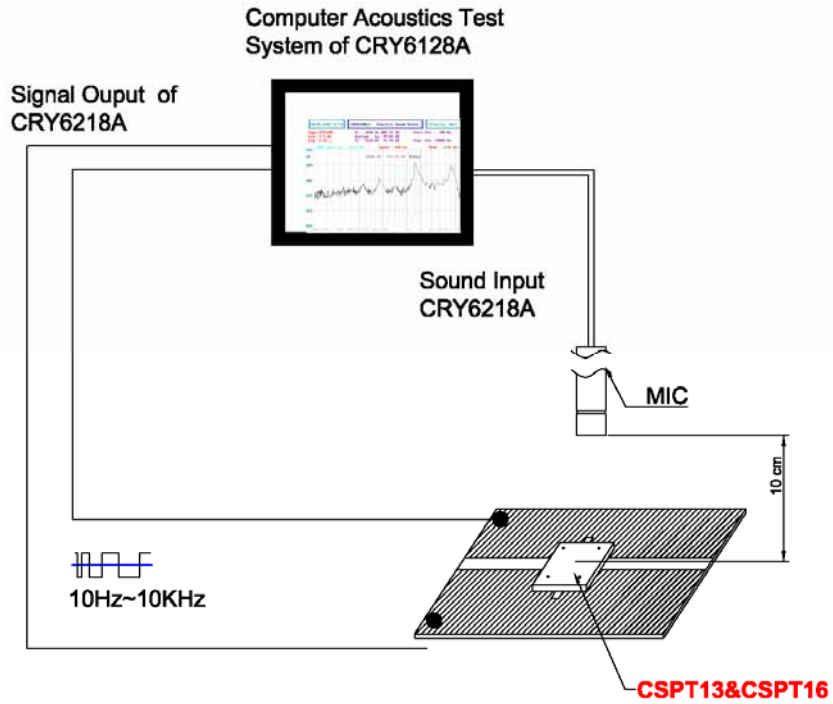
Recommend Reflowing Profile



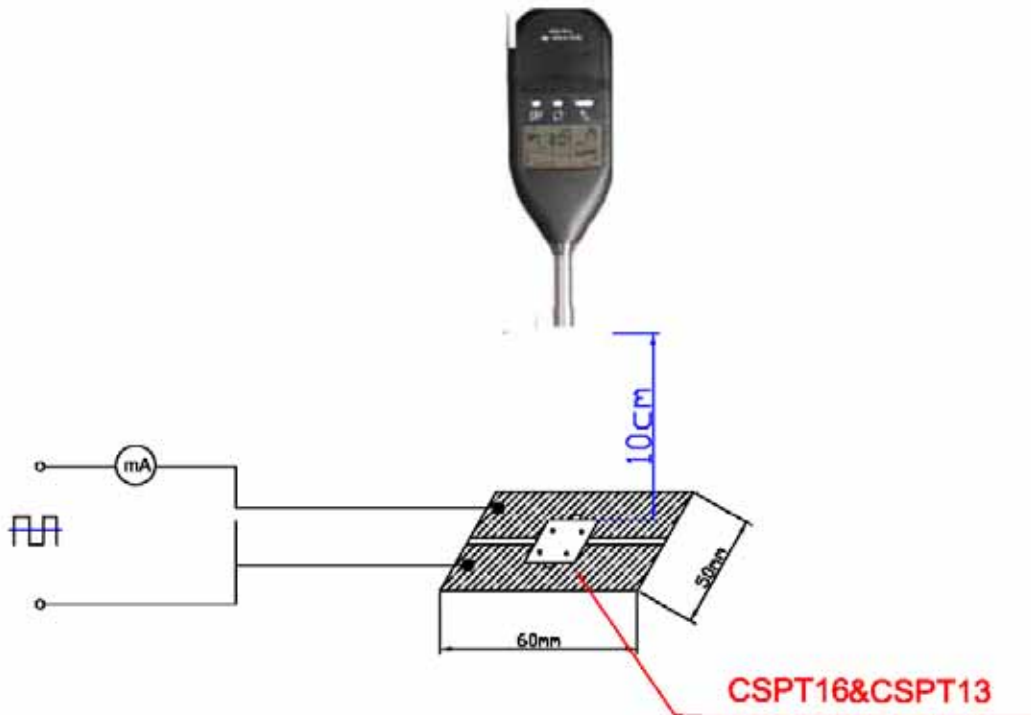
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Test Methods

SPL1: Tested by Computer Acoustics Test System of CRY6128A



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



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