

Description

Chinasound SMD Piezo Transducer 16mm length, type B(=16 mm width, 2.5mm height, soldering pad width 2mm), 05 Vp-p rated voltage – 4.0KHz resonant frequency, lead Free reflowing solderable and RoHS compliant, tested by 60x50mm PCB

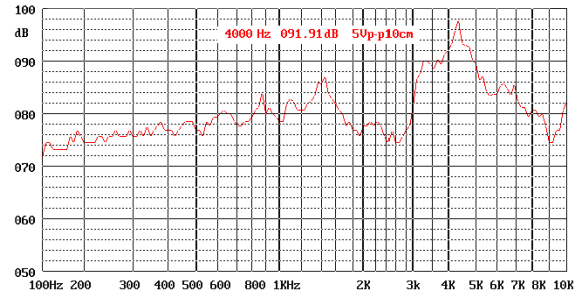
◆ **RoHS compliant**

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

Picture



Frequency Response Curve



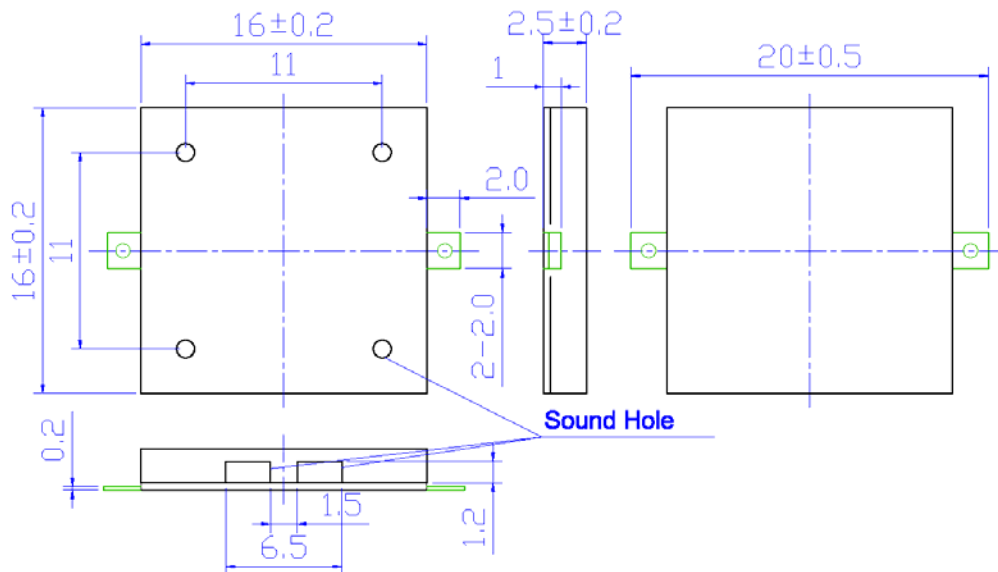
Specification

Rated Voltage	5 Vp-p
Operating Voltage	25 Vp-p max.
Operating Frequency	4000+/-500Hz
Typical Sound Output	85dB min. (typ. 90 dB) at 5 Vp-p 10cm 4.0KHz 25 °C
Rated Current	2 mA at 5 Vp-p
Capacitance	15000+/-30% pF at 100Hz 1Vrms
Operating Temperature	-40 °C to +105 °C
Storage Temperature	-40 °C to +120 °C
Termination	2 soldering pads, Sn plated Brass
Construction Materials	Case Plastic, LCP Vectra E130i Diaphragm Ni Alloy Disc N42
Weight (Typical)	0.8g
Reliability	At 5 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 +105+/-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 -40+/-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 ² (=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
	*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/090624 Checked by: Gao CL, Gong YS, Zhu YC/090624 Approved by: Wang Z/090624



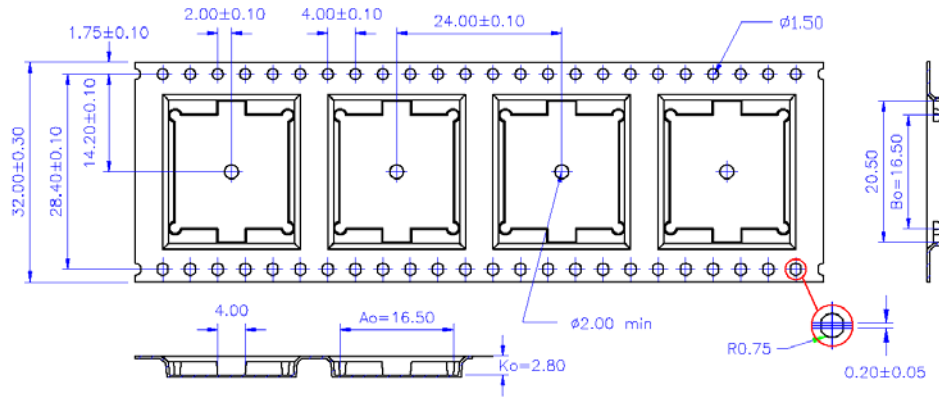
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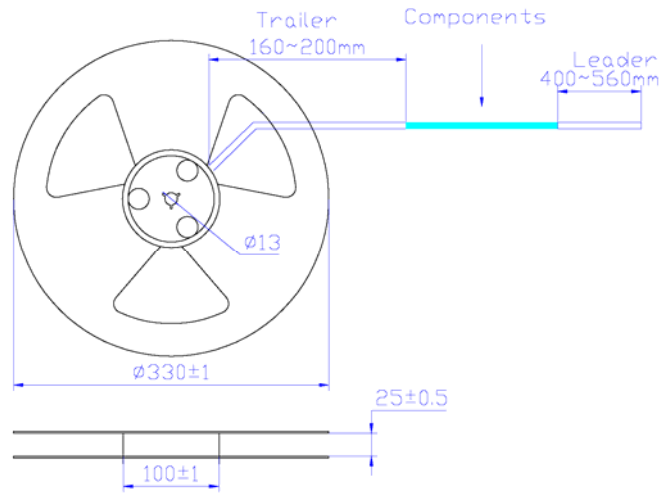
email: csound@jsmail.com.cn

Tape & Reel Dimensions (Unit:mm)

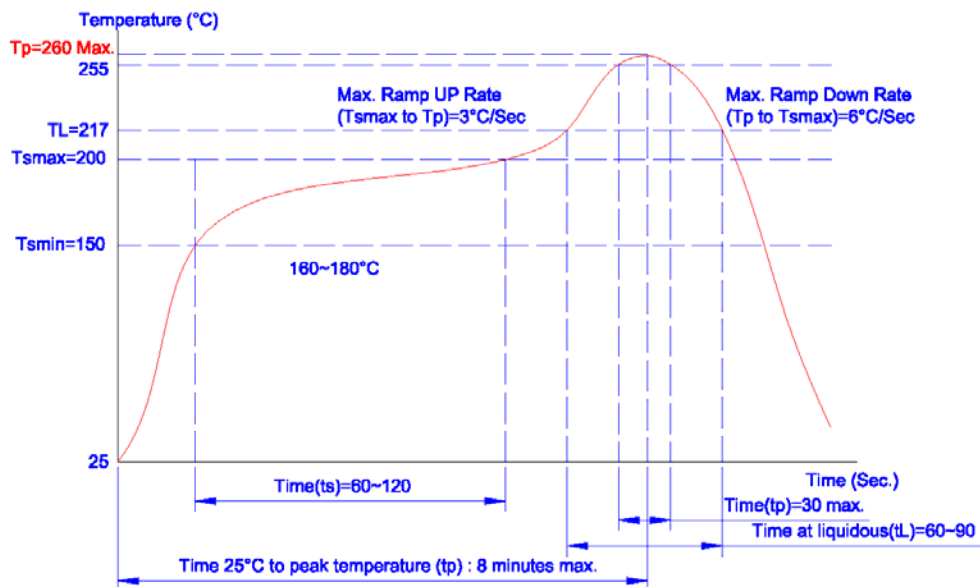


NOTE:

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: 750 pcs.



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

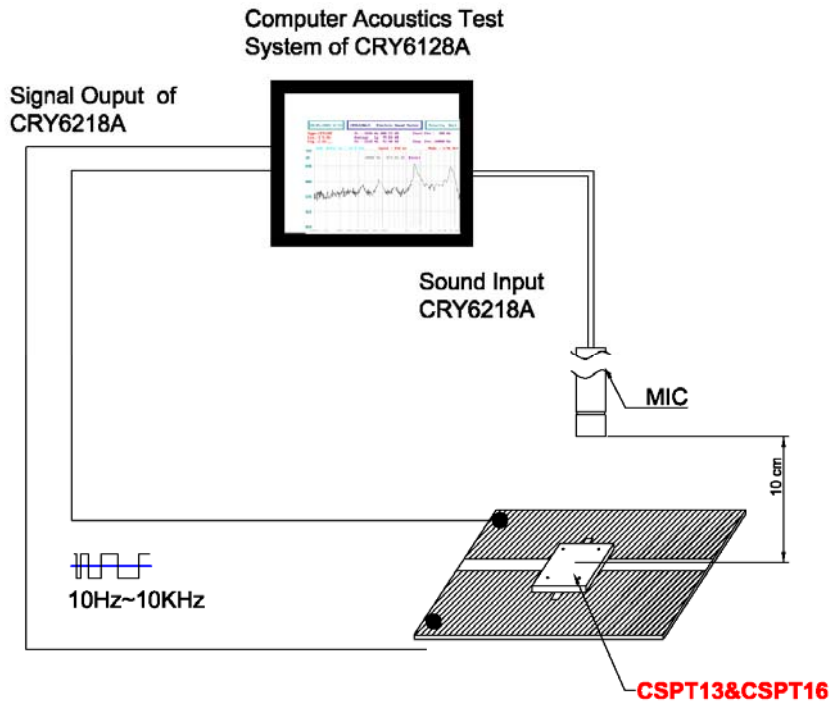


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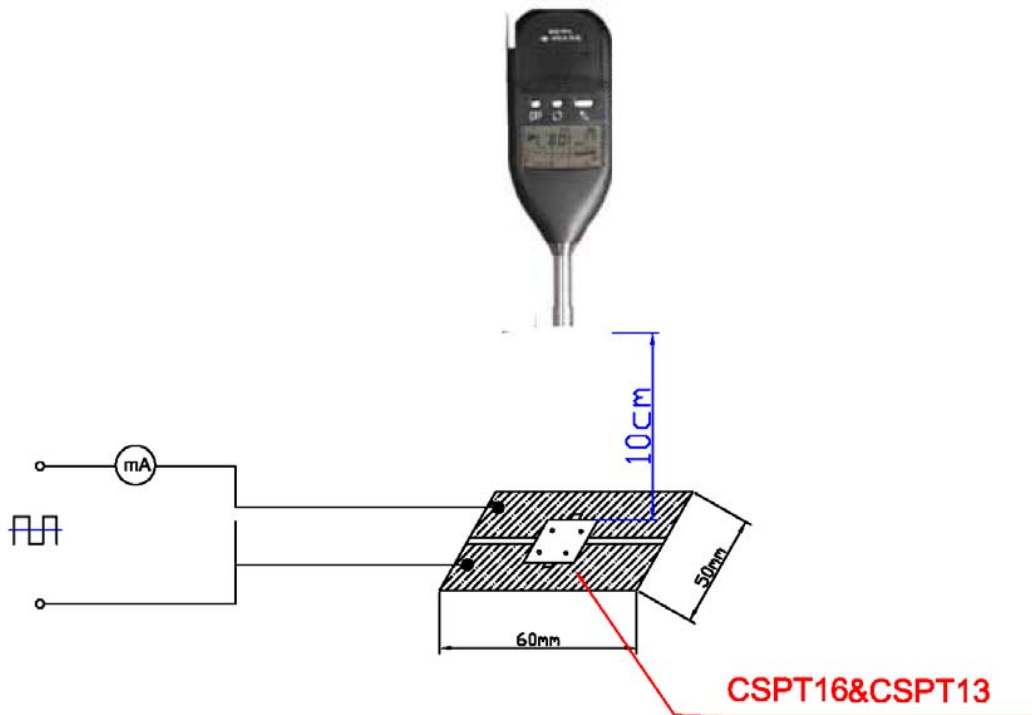
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Test Methods

SPL1: Tested by Computer Acoustics Test System of CRY6128A



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



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Revision History

Version Number	Description	Name
060227	Original, CSPT16B05-4.0F	Guo Jun
080710	To add test 50x60mm PCB standard	Guo Jun
090624	Update recommend reflowing profile as per J-STD-020D	Guo Jun

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