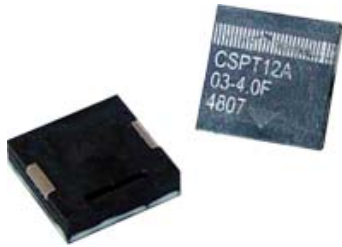
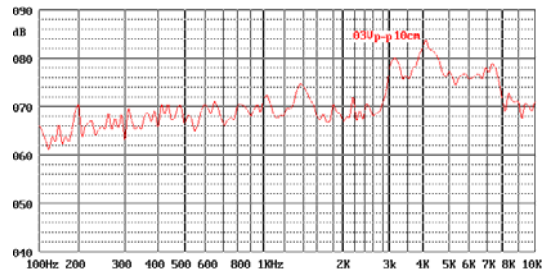


Description

Chinasound SMD Piezo Transducer 12mm length, type A(=12mm width, 3.0mm height), 3Vp-p rated voltage – 4.0KHz resonant frequency, lead Free reflowing solderable and RoHS compliant

Picture**◆ RoHS compliant**

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

Characteristics**Specification**

Operating Voltage
Operating Frequency
Typical Sound Output
Typ. Operating Current
Capacitance
Operating Temp.
Storage Temperature
Termination
Construction Materials
Weight (Typical)
Reliability

Description
Case
Diaphragm

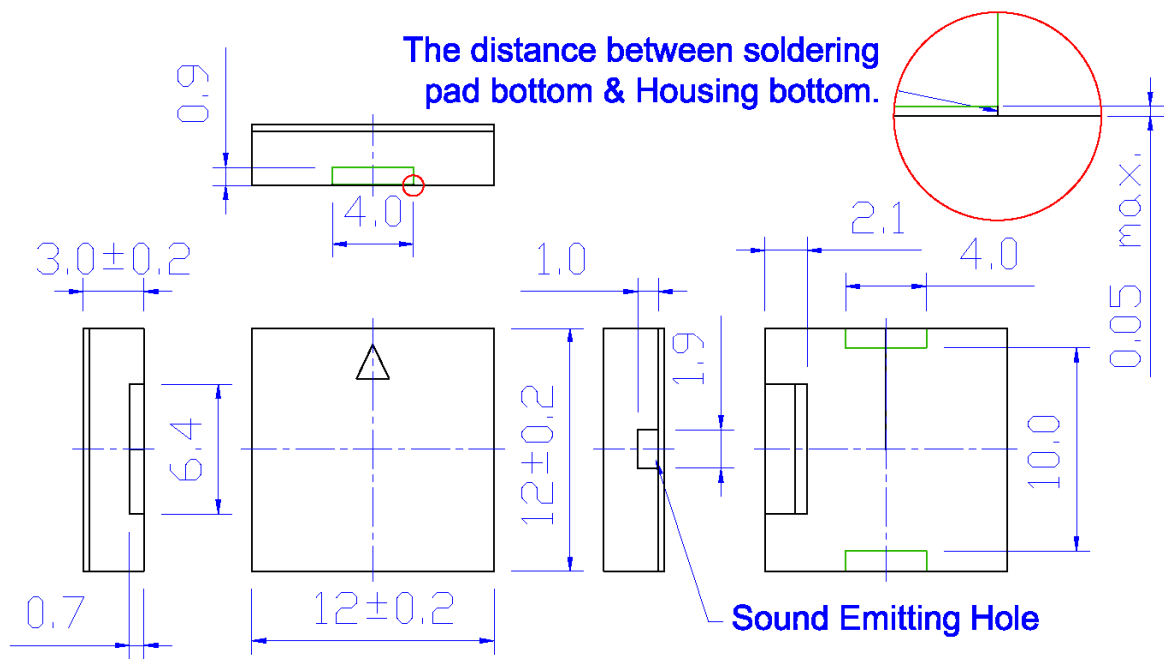
*Life Test
*High Temperature
*Low Temperature
*Humidity
*Thermal Shock
*Vibration
*Shock
*Drop Test
*Soldering Heat Resistance
**Solderability

20 Vp-p max.
4,000+/-500Hz
75dB min. at 3Vp-p 10cm 4KHz 25 °C
1mA max. at 3Vp-p 4KHz 25 °C
15,000+/-30% pF at 100Hz 1Vrms
-40 °C to +105 °C
-40 °C to +120 °C without package
2 soldering pads, Sn plated Brass
Plastic, LCP Vectra E130i or equal
Ni Alloy Disc N42 or equal
0.8g
At 3 Vp-p, 1 minutes ON 1 minutes OFF in room temperature continuously for 1,000 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/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 oven 2 times
Samples put on PCB with solder paste 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, Tolerance: ±0.3mm)

All specifications are subject to change without notice

Composed by: Guo J/100525 Checked by: Gao CL, Gong YS, Zhu YC/100525 Approved by: Wang Z/100525

ChinaSound

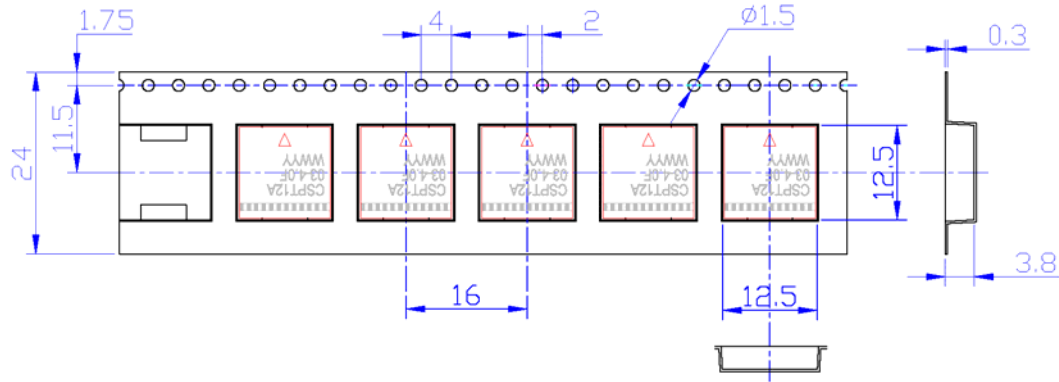
CHANGZHOU CHINASOUND ELECTRONICS CO., LTD.

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

<http://www.chinasound.com>

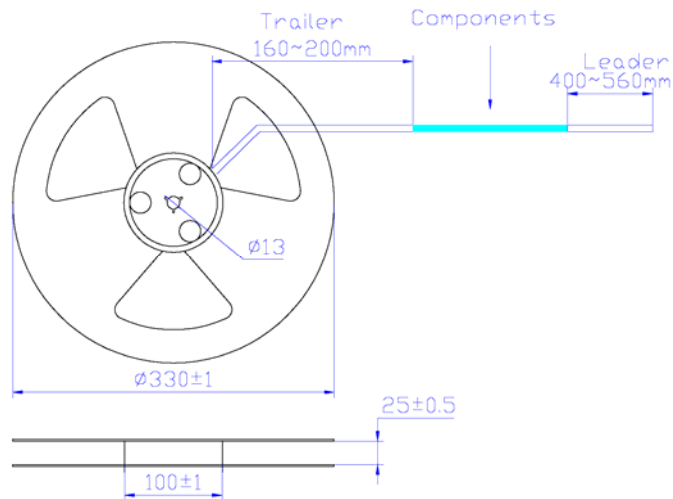
email: csound@jsmail.com.cn

Tape & Reel Dimensions (Unit:mm)

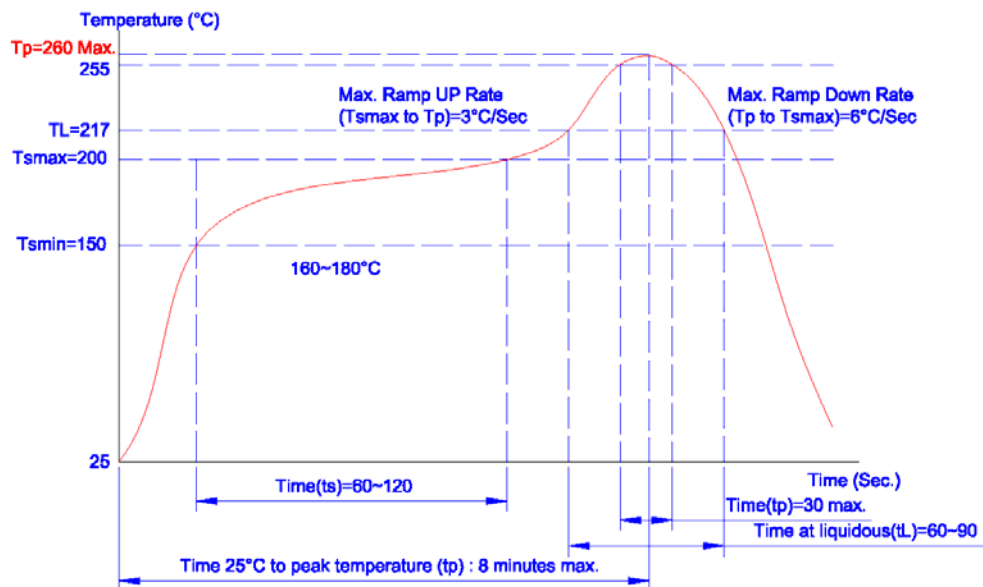


NOTE:

- 1.10 sprocket hole pitch cumulative tolerance $\pm 0.20\text{mm}$.
- 2.Carrier camber not to exceed 1 mm in 100 mm.
3. All dimensions meet EIA-481-2-A requirements.
4. Thickness: $0.30\pm 0.05\text{ mm}$.
5. Component loaded per 13" reel: 1000 pcs.



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



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Revision History

Version Number	Description	Name
040223	Original, CSPT12A03-4.0	Guo Jun
040825	Change to RoHS compliant version, CSPT12A03-4.0F	Guo Jun
050309	Add Recommend Reflowing Profile	Guo Jun
061214	New specification format	Gao Li
090513	Recommended reflowing soldering profile is updated as per JEDEC J-STD-020D	Guo Jun
100525	To add requirement on the distance between soldering pads bottom and housing bottom must be 0.05mm max. , in order to prevent bad solderability	Guo Jun

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