

CSPT11A05-4.1F

Version:SP1.04.063-B0

Description

Chinasound SMD Piezo Transducer 11mm length, type A(=9 mm width, 1.7mm height), 5Vp-p rated voltage – 4.1KHz resonant frequency, lead Free reflowing solderable and RoHS compliant ,Version A1(solder between wire and metal disc).

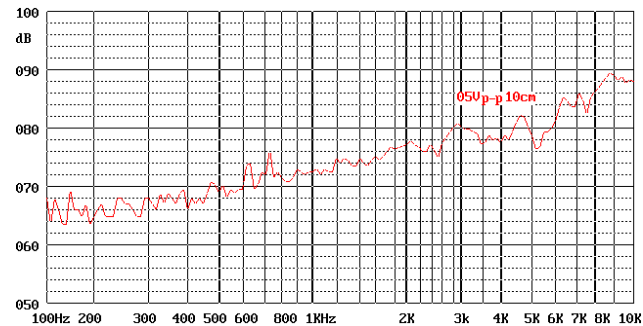
◆ RoHS compliant

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

Picture



Frequency Response Curve



Specification

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

*Soldering Heat Resistance

**Solderability

20 Vp-p max.

4,100+/-500Hz

73dB min. at 5Vp-p 10cm 4.1KHz 25 °C

2mA at 5Vp-p 25 °C

10,000+/-30% pF at 100Hz 1Vrms

-40 °C to +105 °C

-40 °C to +120 °C

2 soldering pads, Sn plated Brass

Plastic, LCP Vectra E130i

Ni Alloy Disc N42

0.9g

At 5 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 twice

Samples put on PCB with solder paste through reflowing soldering oven 1 times

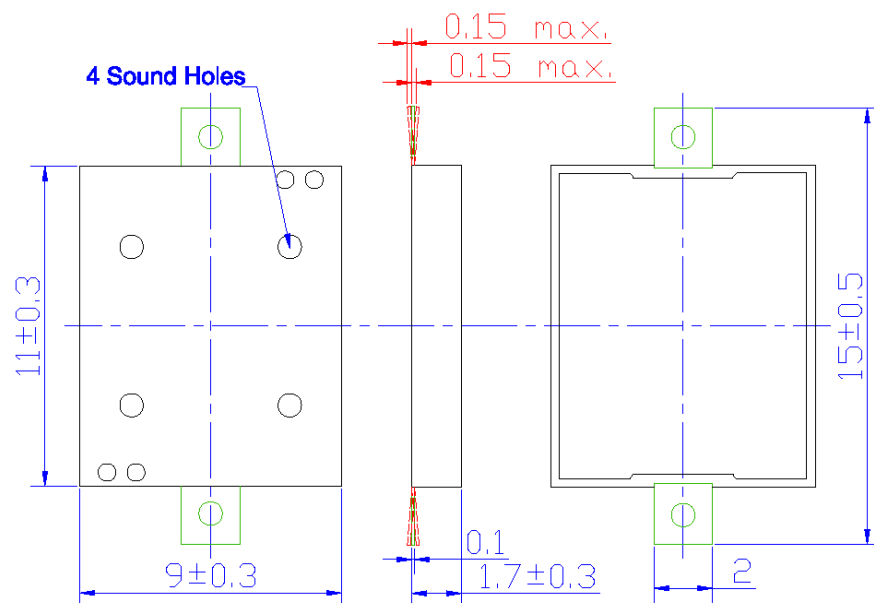
For a period of one (1) year from date of manufacture under normal operations

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)



All specifications are subject to change without notice

Composed by: Elsa Xu/131127 Checked by: James Zhu, Johnny Zhu/131127 Approved by: William Wang/131127

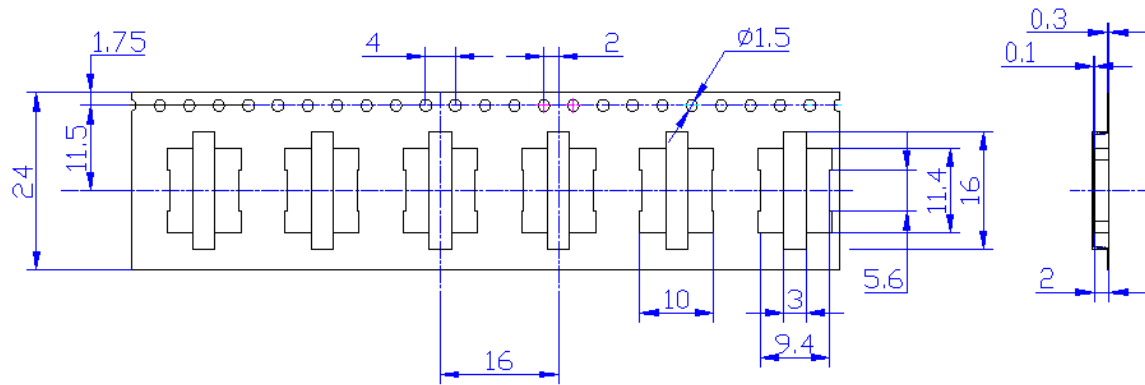
ChinaSound

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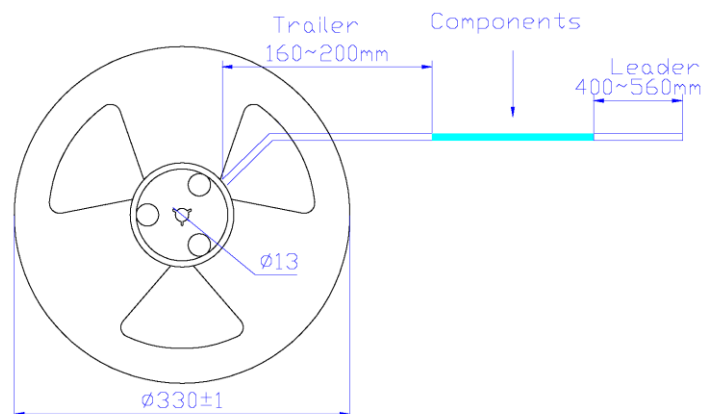
<http://www.chinasound.com>email: market@chinasound.com

Tape & Reel Dimensions (Unit:mm)

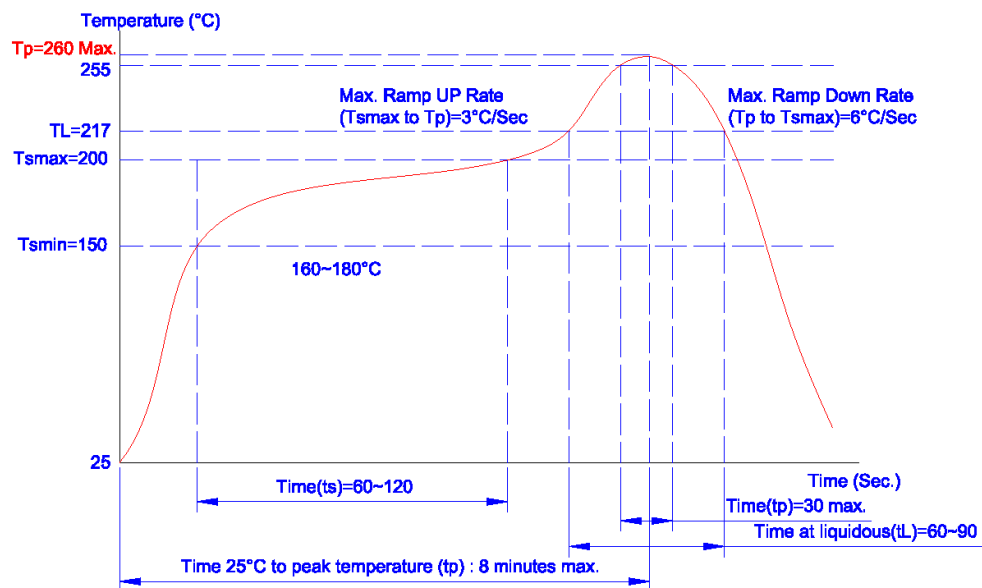


NOTE:

1. 10 sprocket hole pitch cumulative tolerance ± 0.20 mm.
2. Carrier camber not to exceed 1 mm in 250 mm.
3. All dimensions meet EIA-481-2-A requirements.
4. Thickness: 0.30 ± 0.05 mm.
5. Component loaded per 13" reel: 1,900 pcs.



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



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Revisions History

Version Number	Description	Name	Date
SP1.04.063-B0	Original, CSPT11A05-4.1	Elsa Xu	2013-11-27

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